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

API 47 - 061 - 0	1684 County Mo	nongalia	District Clay	
Quad Blacksville, WV			Field/Pool Name E	Blacksville
Farm name Coastal Fores			Well Number 3H	
Operator (as registered with	the OOG) Northeast Na	tural Energy LLC		
Address 707 Virginia St.	Suite 1200 City	, Charleston	State WV	Zip 25301
Top I	nole Northing 4395386		Easting <u>568200.3</u>	
Landing Point of C			Easting 568049.2 Easting 566754.6	
Bottom I	Northing 4337037.		Easting	
Elevation (ft) 1,420'	GL Type of V	Vell ANew 🗆 Existing	Type of Report	■Interim □Final
Permit Type Deviated	🗆 Horizontal 🗂 Ho	orizontal 6A 🛮 🗆 Verti	cal Depth Type	□ Deep ■ Shallow
Type of Operation □ Conve	ert 🗆 Deepen 🗂 Drill	□ Plug Back □ I	Redrilling Rework	□ Stimulate
Well Type	ıl □ CBM	□ Secondary Recovery	□ Solution Mining □ St	torage 🗆 Other
: Type of Completion □ Sing	ule 🗆 Multiple — Fluids I	Produced a Brine a	Gas □ NGL □ Oil	□ Other
	Rotary	roduced a brille a	das BNOD don	
Drilling Media Surface ho	le ■ Air □ Mud □Fres	sh Water Intermed	iate hole 🗂 Air 🗆 Mud	d □ Fresh Water □ Brine
Production hole Air	Mud	Brine		
Mud Type(s) and Additive(s Synthetic Based Mud for horizontal	•	JM CHLORIDE POWDER, G	SEAL PLUS, HRP, LIME, M-I V	WATE (BARITE), M-I-X II MEDIUM,
MEGADRIL P SYSTEM, MEGADRIL F	SYSTEM RENTAL, MEGAMUL, SAF	E-CARB 250, VERSATHIN HF, V	ERSAWET, VG-PLUS, VINSEAL N	EDIUM, WALNUT NUT PLUG MEDIUM
Date permit issued 10/2	8/2014 Date drilling	commenced12/5/2	2014 Date drilling	ceased 2/24/2015
Date completion activities be	egan N/A	Date completion	activities ceased	N/A
Verbal plugging (Y/N)		ranted	Granted by	
Please note: Operator is req	uired to submit a plugging a	application within 5 days	s 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) encounte	red (YAV) depths	N
Coal depth(s) ft	600' , 1,200'		hered (Y/N) depths	N
Is coal being mined in area (Y/N) N	——————————————————————————————————————	OCT 07 2015	
1			OCI V / COD	Reviewed by:

WR-35 Rev. 8/23/13

API 47- 061	_ 01684	Farm n	ame_Coastal F	orest Resou	ırces Con	npany _{Weli} ,	bar 3H	
			ame			Well i	iuiiloei	
CASING STRINGS	Hole Size	Casing	Darak	New or	Grade			Did cement circulate (Y/ N
Conductor	30	Size 24	Depth 50	Used N	wt/ft	N/A	epth(s) '	Provide details belowe Y to surface
Surface	17.5	13 3/8	1,381	N	+	54.5	N/A	Y 35 bbls
Coal	17.3	13 3/0	1,301	"	 	34.3	N/A	1 33 0015
Intermediate 1	12.25	9 5/8	2,768	N		40	N/A	Y 12 bbls
Intermediate 2	12.23	3 3/0	2,700	 "	-	40	N/A	1 12 0015
Intermediate 3					1			
Production	8.5	5.5	15,644	N		20	N/A	Estimated top 2000'
Tubing	0.5	3.3	13,044	 "	+	20	IVA	Estimated top 2000
Packer type and d	lepth set			<u> </u>		J		
Comment Details	·							
CEMENT DATA	Class/Type of Cement	Numbe of Sack			Yield ft ³/sks)	Volume	Cement Top (MD)	WOC (hrs)
Conductor	4,500 psi ready n	<u>-</u>			.75	27.27	CTS	48
Surface	Class A	1054	15.	2	1.27	1,271	CTS	8
Coal								
Intermediate 1	Class A	908	15.2	2	1.26	1,074	CTS	8
Intermediate 2					-			
Intermediate 3								
Production	50/50 Premium NE - 1 3% R-3.3% N	PA 170 3007	14.	5	1.17	2,661	Estimated 2,	000' 48
Tubing								
-	t) 15,665° ation penetrated h	Aarcellus		Loggers 1 Plug back				
Kick off depth	ı (ft) 6,617'							
Check all wire	eline logs run	□ caliper □ neutron	□ density □ resistivity		ted/direct a ray		luction nperature c	Isonic
Well cored	Yes A No	Convention	onal Side	wall	W	ere cuttings o	collected Y	es 🗆 No
	HE CENTRALIZ		ENT USED FO	OR EACH C	ASING S	TRING		
	ring centralizers every 3rd							
Production: Hard boo	fiod spiral centralizers eve	ry other joint or aprox 8	O' from TD to KOP the	en bow spring from	KOP to 9 5/8*	every forth joint or a	prox 140'	
WAC WELL	COMPLETED A	C CHOT HOLE		No. D	CTAIL C	This well has not	yet been completed.	
WAS WELL	COMPLETED A	3 3001 MULE	Yes 🗆	טאו טאו	ETAILS	17110 17011 1103 1101		
						P. P. P.	Receive	_
WAS WELL (COMPLETED O	PEN HOLE?	🗆 Yes 🗂 N	lo DET	AILS _	<u>Offi</u>	ce of Oil a	& Gas
							OCT 0 7 20	15
WERE TRAC	ERS USED -	Yes A No	TYPE OF T	RACER(S)	USED _		001 01 20	

API -	47- 061	01684	Farm name Coastal Forest Resources Company	Well number_3H
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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	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>			
	1							· · · · · · · · · · · · · · · · · · ·

Please insert additional pages as applicable.

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_ 01684		_ Farm	name Coastal I	-orest Res	source	s Compai	Mell Well	number	эп	
FORMATI	ON(S)		DEPTHS							
			8,203.32'	TVD	15,66	65'	MD			
		-			_		_			
		-		-	-		_			
ditional pa	ges as ap	pplicable.								
🗆 Build up	□ Dr	awdown	□ Open Flow		OIL.	TEST 🗆	Flow 0	2 Pump		
SSURE	Surface		psi Botto	m Hole_		psi	DURA'	TION C	F TES	Thrs
Gas	mcfpd	Oil	NGL bpd		Wate					
	FT D	EPTH IN FT	TOP DEPTH IN FT	DEPTH IN	VFT I					
	/D	TVD	MD	MD		TYPE OF FI				
U			0				-	10030 0	oc Allac	imen
					-					
					-					
litional pag	ges as ap	plicable.								
tor Pionee	r 63									
Loop 410 S	uite 1000		City	San Antor	nio		State	TX	_ Zip	78209
ny Baker I	Hughes									
ippi Pike			City	Clarksbur	g		State	wv	Zip	26301
Rake	er Hughe	s								
	, riugric	Y	City	Clarksbur	g		State	wv	Zin	26301
			City					-		
npany			Other		-		Ctata		7in	Dogobies
litional pas	ges as ar	plicable	City				State			
			_				221 22	0000	,	Office of Oil & G
Zack Arnol	d	6	7	oneed Me-			304.203	8.8059	nielana i	OCT 0 7 2015
	1		Title _G	eneral Man	ager - C	perauons		Date 1	0/0/2013	
	ditional page SSURE Gas TOP DEPTH IN NAME TY 0 ditional page to Pionee E Loop 410 S ny Baker H ippi Pike npany Bake ippi Pike npany Litional page H ippi Pike	Build up	ditional pages as applicable. Build up Drawdown SSURE Surface Gas Oil mcfpd TOP BOTTOM DEPTH IN FT DEPTH IN FT NAME TVD TVD 0 ditional pages as applicable. Proper 63 Loop 410 Suite 1000 my Baker Hughes ippi Pike pany Baker Hughes ippi Pike mpany ditional pages as applicable.	ditional pages as applicable. Build up Drawdown Deen Flow SSURE Surface psi Botto Gas Oil NGL TOP BOTTOM TOP DEPTH IN FT DEPTH IN FT DEPTH IN FT NAME TVD TVD MD 0 0 0 ditional pages as applicable. Stor Pioneer 63 E Loop 410 Suite 1000 City my Baker Hughes ippi Pike City mpany Baker Hughes ippi Pike City mpany City ditional pages as applicable. Zack Arnold	ditional pages as applicable. Build up Drawdown Dopen Flow SSURE Surface Dsi Bottom Hole Gas Oil NGL DEPTH IN FT DEPTH IN F	ditional pages as applicable. Build up Drawdown Doen Flow OIL SSURE Surface psi Bottom Hole Gas Oil NGL Wate mcfpd bpd bpd TOP BOTTOM TOP BOTTOM DEPTH IN FT D	ditional pages as applicable. Build up Drawdown Den Flow OIL TEST Described Depth IN FT D	Baker Hughes Pipe Pike City Clarksburg State Intional pages as applicable. Intional pages Intional	Build up	ditional pages as applicable. Build up Drawdown Open Flow OIL TEST Flow Pump

		Ta ci dang motton	Ta ci standa and		Describe rock type and record quantity and type of fluid
Lithology/Formation	Top Depth in FT Name TVD	TVD	MD	Bottom Depth in FT MD	(ilesilwatel, blille, Oll, gas, n23, etc)
Sand/Shale	0	40			sand/shale
Red Rock	40	112			red rock
Sand/Shale	112	2350			sand/shale
Limestone	2350	2392			limestone
Big Injun	2392	2537			sandstone
Shale	2537	2722			shale
Sand/Shale	2722	2830			sand/shale
Shale	2830	4346			shale
Grey Shale	4346	5225			shale
Shale	5225	0529			shale
Sandstone/Shale	6550	7755			sandstone/shale
Burkett	7755	7918	7853	8041	shale
Geneseo	7918	7970	8041	8109	shale
Tully	7970	8020	8109	8171	limestone
Hamilton	8020	8112	8171	2688	shale
Marcellus	8112	8185	8397	8538	shale
Cherry Valley	8185	8190	8538	8540	limestone
Lower Marcellus	8190		8540		shale



CUSTOMER	NORTHE	AST NATURAL	NER		DATE	06-D	EC-14	F.R.	# 1	1001112	3765		SE	RV. SUPV	Char	les M Gray		
LEASE & WE		61016880000			LOCA	TION	1							UNTY-PA				
DISTRICT Clarksburg	SH - API 470	01010000000			DRILL	ING C	ONTRAC		IIG#					PE OF JOI Surface		guna		
SIZE	R TYPE OF	PLUGS		LIST-	CSG-H	ARDW	ARE		MECH	HANICA	L BARRI	ERS	MD	TVD	HANG	ER TYPES	M	D TVD
5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			Floor				17.											
BJ Cement P	lug, Rubbe	1, 10p 13-3/6		Collar, Shoe 1			o - oru											
								1		-	F	HYS	CAL SL	URRY PRO	PERTI	ES		
MATERIAL	.S FURNIS	HED BY BJ				LAB	REPORT	NO.	SAC OF CEME		SLURRY WGT PPG	1	URRY (LD FT	WATER GPS	PUI TIM HR:M	ME B	bl RY	Bbl MIX WATER
6% PRE FLU	JSH +500#	GEL+ FLAKE									8.43						25	
PREMIUM N	E-1 + 1% (CALC				0			1,	054	15.2		1.25	5.7	5		236	145.13
FRESH H2O											8.34						207	
200 LB SUG	AR										0						0	
75 LB FLAKE	₽										0						0	
Available Mi	x Water	500		Bb	. Av	ailable	Displ. FI	uid _		500	В	bl.		то	TAL		468	145.13
	HOLE							SG-D.I	P.						COL	LAR DEPT	-	
17.5	% EXCES	142 142			OD 13.38	WGT.	.5 CSG	TYPE		MD 1381	1381		ADE	SHOE	881	FLOAT 1339		STAGE
77.15			0 12	.02	100000	_						_						
ID OD I	AST CASI	9.000	ID TV	/D	PKR-C BRANI		T-BR PL-	42-0-0-1-0	PTH	TOP	F. DEPTH		10000	CONN	TYP	WELL F	LUID	WGT.
23. 24	95. CSG		40	40	DRANL	0.001.11	-	DEF	-111	C			13.375		OTHE			0
DISPL. VO	LUME	D	ISPL. FL	UID	(AL. PS	I CAL	. MAX	PSI C	P. MAX	X M	AX TE	G PSI		MAX CS	G PSI		MIX
VOLUME	UOM	TY	E	WG	r. BU	IMP PL	UG T	O REV.		SQ. PSI	RAT	ED	Operat	or RA	TED	Operator		WATER
205	BBLS	FRESH H2O		8	.34	4	80		0		0	0		0	2180	600	TA	NK
EXPLANATIO	N: TROUB	LE SETTING T	OOL, RI	JNNING	CSG,	ETC. P	RIOR TO	CEME	NTING	3:				-				
		PRESSUE	RE/RATE	DETAI	_								1	EXPLANA	ION			
TIME		SURE - PSI		TE	Bbl. F		FLUII				ETING: B	-	the state of the s	CO. REP	X			
HR:MIN.	PIPE	ANNULU	3 5	PM	PUM	PED	TYPE			LINES	CHELL	3562		BJ	X			
17:30			+					-			G WELL			V TIME 19				
20:30			+							11111111	MEETING	_	CATIO	4 HIVIL 10	50)			
21:15											ETY ME		3					
21:21				3		5	H2O		INEF									
21:22	356	2		1			H2O	-			EST LINE	ETO	3562					
21:27	14			6.2			H2O			10.3	WATER							
22:06	14	6		5.2		25	GEL H2	0 6	6% PR	E FLUS	SH + CEL	LOF	LAKE					
22:11	19	5		5.8		10	H2O	V	NATE	R SPAC	CER							
22:13	25	2		5.6		221	SLURR	Y F	PREMI	IUM NE	-1 +1%C	ALC						
22:57		0		0		0		5	SHUT	DOWN	RELEAS	E PLI	JG					
22:59	19	6		7			H20	S	START	DISPL	ACEMEN	11						
23:35	64	10		0		205	H2O	F	PLUG	DOWN								
23:40		0		0		0		(CHECK	K FLOA	T FLOAT	HEL	D WITH	1/2 BBL E	BACK			
23:41								F	PRER	IG OUT	MEETIN	lG						
BUMPED PLUG	PSI TO BUMP PLUG 505	TEST FLOAT EQUIP.	REV	CMT 'URNS/ ERSED	E	OTAL BBL. MPED	PS LEFT CSC	ON	SPO TOP CEM	OUT	SERVI	CE SI	JPERVI	SOR SIGN	ATURE:			
Y N	303	N	33		001		U			IN		_						



LEASE & WEL	LNAME	-	NATURAL EN	973.1		DATE		1 100	R. #	1001112	-77		_	117	RV. SUPV		-			
COASTAL 3		0610	16840000			LOCATI	ON CKSVIL	1F						1000	UNTY-PA Monongalia					
DISTRICT Clarksburg							70 - C F	NTRACTOR	RIG#					TY	PE OF JOI	В	-			
SIZE 8	TYPE O	F PL	UGS		LIST-0	CSG-HAR	RDWA	RE	MEC	HANIC	AL BA	RRIEF	RS	MD	TVD	HAN	GER T	YPES	MI	D TVE
BJ Cement Pl	ug, Rubb	er, T	op 9-5/8	Guide S	Shoe,	Cement I	Nose,	9-5/8 i	NONE	=						NON	E		Т	
				Float C	ollar,	Al Flap, 9	-5/8 -	8rd												
						-						PH	IYSIC	AL SL	URRY PR	OPER	TIES			
MATERIAL	S FURNI	SHE	D BY BJ			ı	_AB R	EPORT NO.	SAC	F	SLUR WGT PPG		Y	URRY LD	WATER GPS	Т	PUMP TIME R:MIN	Bb SLURR		BbI MIX WATER
PROCESSED	H2O											8.4						2	210	
GEL/FLAKE											8	.45							25	
H2O											8	.34							10	
PREMIUM N	E-1					ı	N/A			908	1	5.2		1.24	5.7	4 0	4:10	2	200	123.
H2O											8	.34						2	206	
200# SUGAR	ON SIDE	=										0							0	
Available Mix	Water		500		Bbl	. Avai	lable [Displ. Fluid		500		Bbl	i,		то	TAL		6	51	123.7
	HOLE				_			TBG-CSG-I	D.P.							CC	DLLAR	DEPTH	S	
SIZE	% EXCE	SS	DEPTH	ID			NGT.	TYPE		MD	TV	D	GRA	DE	SHOE			OAT		STAGE
12.25	30		2830	8.83	5 9	9.625	40	0 CSG		2768	27	68	J-55		27	768		2721		
	AST CAS	ING				PKR-CM	TRET	-BR PL-LINE	2.0	PER	F. DEF	3333			CONN			VELL FL	UID	
ID OD W	55. CSC	TYPE	13			PACKER		E D	EPTH	TOP	1	BTM		9.625	THREAD		YPE HER			WGT.
13. 13.38						PACKER					-			9.025	ORD	Oir	IER		_	
18. 17.5	OPE	NH	OLE 14	00 140)														_	
DISPL. VOL	UME		DIS	PL. FLUI	D	CA	L. PSI	CAL BEAT	V DCI	OD MA	v	MA	V TD	G PSI	1	MAX (CCC D	21		MIX
						UA		CAL. MA	X PSI	OP. MA	^	MAC	V 10	G PSI		TIPO C	030 F	31	1	
VOLUME	UOM		TYPE		WGT		IP PLU		-	SQ. PS		ATE		Operat		TED		perator		
	BBLS	H20	TYPI		WGT			JG TO RE	-			-		2500		-	Op		TAI	WATER
VOLUME 206	BBLS		TYPI		WG1	г. вим .34	97	JG TO RE	0	SQ. PS	l F	-	D	Operat	or RA	TED 4600	Op	perator		WATER
VOLUME	BBLS		TYPI	DOL, RUN	8.	CSG, ET	97	JG TO RE	0	SQ. PS	l F	-	D	Operat	or RA	TED 4600	Op	perator		WATER
VOLUME 206	BBLS	BLE	TYPE	DOL, RUN	8. INING	CSG, ET	970 C. PR	JG TO RE	O SAFE	G:	0 ETING	: BJ	0 CRE	Operat W X PSI	O RA O EXPLANA CO. REP	4600	Op	perator		WATER
VOLUME 206 EXPLANATION TIME HR:MIN.	BBLS N: TROUE	BLE	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INING	CSG, ET	970 C. PR	O TO RE	SAFE TEST CIRC	G: ETY ME T LINES ULATIN	ETING	: BJ	CRE	Operat	O RA O EXPLANA CO. REP	TED 4600	Ot	2400		WATER
VOLUME 206 EXPLANATION TIME HR:MIN. 12:30	BBLS N: TROUE	BLE	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INING	CSG, ET	970 C. PR	O TO RE	SAFE TEST CIRC	G: ETY ME T LINES ULATIN VE AT L	ETING G WE	: BJ 4 LL -	CRE 200 RIG 12-09	Operat W X PSI -2014	CO. REP	TED 4600	Ot	2400		WATER
VOLUME 206 EXPLANATION TIME HR:MIN. 12:30 18:00	BBLS N: TROUE	BLE	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INING	CSG, ET	970 C. PR	O TO RE	SAFE TEST CIRC ARRIV	G: ETY ME T LINES ULATIN VE AT L JOB RIG	ETING G WE	: BJ 4 LL -	CRE 200 RIG 12-09	Operat W X PSI -2014	CO. REP	TED 4600	Ot	2400		WATER
206 EXPLANATION TIME HR:MIN. 12:30 18:00 18:15	BBLS N: TROUE	BLE	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INING	CSG, ET	970 C. PR	O TO RE	SAFE TEST CIRC ARRIV PRE-V	G: ETY ME T LINES ULATIN VE AT L JOB RIG	ETING G WEI OCAT	: BJ 4 LL -	CRE 1200 RIG 12-09 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:15	PRES PIPE	SSUP	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. Sinning	CSG, ET	970 GC. PR	O TO RE	SAFE TEST CIRC ARRIV PRE-	G: ETY ME T LINES ULATIN VE AT L JOB RIG N JOB SA	ETING G WEI OCAT	: BJ 4 LL -	CRE 1200 RIG 12-09 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:15 20:47	PRES PIPE	SSUP 000	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INING	CSG, ET	97/ 97/ CC. PR	TO RE TYPE	SAFE TEST CIRC ARRIV PRE-C RIG-III PRE-C LINE-	G: ETY ME T LINES ULATIN VE AT L JOB RIG N JOB SA	ETING G WE OCAT FETY	: BJ 4 LL - ION :	CRE 1200 RIG 12-09 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:15 20:47 20:49	PRES PIPE	SSUP	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. Sinning	CSG, ET	970 970 CC. PR	O TO RE	SAFE TEST CIRC ARRIV PRE- RIG-III PRE- LINE-I PRES	G: ETY ME T LINES ULATIN VE AT L JOB RIC N JOB SA FILL	ETING G WE OOCAT FETY FETY	: BJ 4 LL - ION :	CRE 1200 RIG 12-09 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:15 20:47 20:49 20:59	PRES PIPE	SSSUP 000 0 0	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. SINING ETAIL E	CSG, ET	970 970 970 970 970 970 970 970 970 970	FLUID TYPE H2O H2O	SAFE TEST CIRC ARRIV PRE- LINE- PRES WATE	G: ETY ME T LINES ULATIN VE AT L JOB RIG N JOB SA FILL SSURE	ETING G WE OOCAT FETY FETY	: BJ 4 LL - ION :	CRE 1200 RIG 12-09 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:15 20:47 20:49	PRES PIPE	000 0 0220	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. Sinning Betail Sinning Sinning	CSG, ET	970 970 970 970 970 970 970 970 970 970	FLUID TYPE H2O PROCESS	SAFE TEST CIRC ARRIV PRE- LINE- PRES WATE	G: ETY ME T LINES ULATIN VE AT L JOB RIC N JOB SA FILL SSURE FLUSH	ETING G WE OOCAT FETY FETY	: BJ 4 LL - ION :	CRE 1200 RIG 12-09 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:15 20:47 20:49 20:59 21:28	PRES PIPE	000 0 0 20 60	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INING ETAIL 5 7 5.2	CSG, ET	970 970 970 970 970 970 970 970 970 970	FLUID TYPE H2O PROCESS GEL/FLAKE	SAFE TEST CIRC ARRIV PRE- LINE- PRES WATE PRE-F SPAC	G: ETY ME T LINES ULATIN VE AT L JOB RIC N JOB SA FILL SSURE FLUSH	ETING G WE OCAT FETY FETY AD	: BJ 4 LL - FION AFET	CRE 2200 RIG 12-00 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:15 20:47 20:49 20:59 21:28 21:34	PRES PIPE	000 0 0 060 50	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INING ETAIL 5 7 5.2 5.1	CSG, ET	970 970 970 970 970 970 970 970 970 970	FLUID TYPE H2O H2O PROCESS GEL/FLAKE	SAFE TEST CIRC ARRIV PRE- LINE- PRES WATE PRE-I SPAC 15.2#	G: ETY ME T LINES ULATIN VE AT L JOB RIC N JOB SA FILL SSURE FR AHE FLUSH CER	ETING G WE OCAT FETY FETY AD	: BJ 4 LL - ION AFET	CRE 2200 RIG 12-09 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:15 20:47 20:49 20:59 21:28 21:34 21:36	PRES PIPE 1 2 1 1 3	000 0 0 220 660 550	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INING ETAIL 5 7 5.2 5.1	CSG, ET Bbl. FLU PUMPE	970 970 970 970 970 970 970 970 970 970	FLUID TYPE H2O H2O PROCESS GEL/FLAKE H2O SLURRY	SAFE TESTI CIRC ARRIV PRE- LINE- PRES WATE PRE-I SPAC 15.2# SHUT	G: ETY ME T LINES ULATIN VE AT L JOB RIC N JOB SA FILL SSURE FR AHE FLUSH ER AHE PREMI	ETING G WE OCAT FETY TEST AD UM N I RELE	: BJ 4 4LL - ION AFET MEE	CRE 2200 RIG 12-09 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:15 20:47 20:49 20:59 21:28 21:34 21:36 22:12	PRES PIPE 1 2 1 3 6	000 0 0 220 660 550 0	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INNING ETAIL 5 7 5.2 5.1 5.3	CSG, ET Bbl. FLU PUMPE	970 970 970 970 970 970 970 970 970 970	FLUID TYPE H2O H2O PROCESS GEL/FLAKE H2O SLURRY	SAFE TEST CIRC ARRIV PRE- LINE- PRES WATE PRE- SPAC 15.2# SHUT STAR	G: ETY ME T LINES ULATIN VE AT L JOB RIC N JOB SA FILL SURE TER AHE FRUSH ER PREMI T-DOWN	ETING G WE OCAT FETY TEST AD UM N I RELE LACE	: BJ 4 4LL - ION AFET MEE	CRE 2200 RIG 12-09 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:47 20:49 20:59 21:28 21:34 21:36 22:12 22:13	PRES PIPE 1 2 1 3 6	000 0 0 0 220 660 550 0	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INNING ETAIL 5 7 5.2 5.1 5.3	CSG, ET Bbl. FLU PUMPE	970 970 970 970 970 970 970 970 970 970	FLUID TYPE H2O H2O PROCESS GEL/FLAKE H2O SLURRY	SAFE TEST CIRC ARRIV PRE- LINE- PRES WATE PRE- SPAC 15.2# SHUT STAR SHUT BLEE	G: ETY ME T LINES ULATIN VE AT L JOB RIG N JOB SA FILL SURE FLUSH ER AHE FLUSH CER PREMIT T-DOWN T-DOWN D-OFF	ETING G WE OCAT FETY TEST AD I RELE LACE I PRESS	: BJ 4 - LL - LOOM - LO	CRE 2200 RIG 112-05 Y ME	W X PSI D-2014	CO. REP	TED 4600	Ot	2400		WATER
TIME HR:MIN. 12:30 18:00 18:15 20:47 20:49 20:59 21:28 21:34 21:36 22:12 22:13 22:46	PRES PIPE 1 2 1 3 6	000 0 0 220 660 550 0 0 550 660	TYPE SETTING TO PRESSURE RE - PSI	DOL, RUN	8. INNING ETAIL 5 7 5.2 5.1 5.3	CSG, ET Bbl. FLU PUMPE	970 970 970 970 970 970 970 970 970 970	FLUID TYPE H2O H2O PROCESS GEL/FLAKE H2O SLURRY	SAFE TEST CIRC ARRIV PRE- LINE- PRES WATE PRE-I SHUT STAR SHUT BLEE CLOS	G: ETY ME T LINES ULATIN VE AT L JOB RIC N JOB SA FILL SSURE ER AHE FLUSH ER PREMIT T-DOWN RT DISP	ETING G WE GOCAT FETY FETY LACE LACE PRESS FEMEN	: BJ 4	CRE 1200 RIG 112-05 Y ME TING	W X PSI D-2014 EETING	EXPLANA CO. REP BJ LOCATIO	TED 4600	Ot	2400		WATER



		PRESSURE	RATE DETAIL				EXPLANATION
TIME	PRESS	URE - PSI	RATE	Bbl. FLUID	FLUID	SAFETY MEI	ETING: BJ CREW X CO. REP. X
HR:MIN.	PIPE	ANNULUS	ВРМ	PUMPED	TYPE	TEST LINES	4200 PSI
					-	CIRCULATIN	G WELL - RIG BJ X
23:05						RIG-OUT	
BUMPED PLUG	PSI TO BUMP PLUG 970	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED 12	TOTAL BBL. PUMPED 647	PSI LEFT ON CSG	SPOT TOP OUT CEMENT Y N	SERVICE SUPERVISOR SIGNATURE:



	NORTHEA	ST NATURAL EN	ER	DATE 25-F	EB-15 F.F	R. # 10011	140944		SERV.	SUPV.	Kevin Pa	augh	
COASTAL	LL NAME 3H - API 4706	61016840000		LOCATION CLAY							SH-BLOC Vest Virgini		
DISTRICT Clarksburg				DRILLING O	ONTRACTOR 63	RIG#				OF JOB g String			
SIZE	& TYPE OF	PLUGS	LIST-	CSG-HARDW	ARE	MECHANIC	CAL BARRI	ERS N	ID T	VD I	HANGER '	TYPES	MD TVD
atch Down I	Plun & Asser	mbly 5-1/2	Float Collar	Auto Fill, 5-1/	2 - BLITTE								
ator borni	10g 0.7 650	nory, o nz	riodi Collar,	rato i ili, 3- ii	Z-BOTTK	-	P	HYSICAL	SLURF	RY PROF	PERTIES		
MATERIA	LS FURNISI	IED BY BJ		LAB	REPORT NO.	SACKS OF CEMENT	SLURRY WGT PPG	SLURF YLD FT		VATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	BbI MIX WATER
ULTRABON	D						13.3					50)
MULTIBONE)					223	13	1.3	26	5.85		50	31.0
50/50 PREM	NE-1 +.35%	6 R-3+.2% MPA	A-170			3,007	14.5	1.1	17	5.14		626	367.6
H20 +100LB	SUGAR						8.34					347	,
100 LB SUG	AR						0					(
Available Mi	x Water	1200	Bbl	. Available	Displ. Fluid	500	В	bl.	-1-	тот	AL	1073	398.6
213-03-23-10	HOLE				TBG-CSG-					1011	1	RDEPTHS	
SIZE	% EXCES	S DEPTH	ID	OD WGT	A STATE OF THE STA		TVD	GRADE		SHOE		LOAT	STAGE
8.5	10	15665	4.778	5.5	20 CSG	1566	8203	J-55					
	AST CASIN			PKR-CMT RE	T-BR PL-LINE	Address of the second	RF. DEPTH		OP CO	17.14		WELL FLUI	
8.8 9.625	40 CSG	PE MD 276		BRAND & TY	PE D	EPTH TOP	BTN		.5 BUT	-	TYPE SYNTHET	TIC MUD	WGT.
0.0 9.023	40 000	2/0	0 2700						.5 60	1	STATIL	IIC WOD	
DISPL. VO			PL. FLUID	CAL. P				AX TBG P			AX CSG P		MIX WATER
VOLUME	UOM	TYPE	WG	r. BUMP PI	UG TO RE	V. SQ. P	SI RAT	ED Ope	rator	RATE	ED O	perator	1000
	BBLS F						0	0	0				
355	100000000000000000000000000000000000000	120 +100LB SU 00 LB SUGAR	GAR 8	0 42	00	0	0	0	0	10	000	5000 T	ANK
	1	00 LB SUGAR	OL, RUNNING	CSG, ETC. P			0	0				5000	ANK
XPLANATIO	N: TROUBL	00 LB SUGAR E SETTING TO PRESSURE	OL, RUNNING	CSG, ETC. P	RIOR TO CEM	ENTING:			EXP	LANATIO	ON	5000	ANK
XPLANATIO	N: TROUBL	E SETTING TO PRESSURE SURE - PSI	OL, RUNNING	CSG, ETC. P		SAFETY M	EETING: B	J CREW [EXP	LANATIO	ON	5000	ANK
XPLANATIO	N: TROUBL	00 LB SUGAR E SETTING TO PRESSURE	OL, RUNNING	CSG, ETC. P	RIOR TO CEN	SAFETY M	EETING: B	J CREW [4500 PSI	EXP	LANATIO	ON	5000	ANK
XPLANATIO	N: TROUBL	E SETTING TO PRESSURE SURE - PSI	OL, RUNNING	CSG, ETC. P	RIOR TO CEN	SAFETY M	EETING: B	J CREW 4500 PSI - RIG	EXP X CC	LANATIO D. REP. BJ	ON X	5000	ANK
XPLANATIO TIME HR:MIN.	N: TROUBL	E SETTING TO PRESSURE SURE - PSI	OL, RUNNING	CSG, ETC. P	RIOR TO CEN	SAFETY M TEST LINE CIRCULATI	EETING: B S ING WELL	J CREW 4500 PSI - RIG	EXP X CC	LANATIO D. REP. BJ	ON X	5000	ANK
TIME HR:MIN.	N: TROUBL	E SETTING TO PRESSURE SURE - PSI	OL, RUNNING	CSG, ETC. P	RIOR TO CEN	SAFETY M TEST LINE CIRCULATI ARRIVE ON	EETING: B S ING WELL LOCATION	J CREW [4500 PSI - RIG [N(LOC TII	EXP X CC	LANATIO D. REP. BJ	ON X	5000	ANK
TIME HR:MIN.	N: TROUBL	E SETTING TO PRESSURE SURE - PSI	OL, RUNNING	CSG, ETC. P	RIOR TO CEN	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN	EETING: B S ING WELL N LOCATION IPMENT N SAFETY M	J CREW 4500 PSI RIG (LOC TII	EXP X CC	LANATIO D. REP. BJ	ON X	5000	ANK
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30	PRESS PIPE	E SETTING TO PRESSURE SURE - PSI ANNULUS	OL, RUNNING //RATE DETAIL RATE BPM	CSG, ETC. P Bbl. FLUID PUMPED	FLUID TYPE	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN RIG IN SAFETY ME	EETING: B S ING WELL N LOCATION IPMENT N SAFETY M	J CREW 4500 PSI RIG (LOC TII	EXP X CC	LANATIO D. REP. BJ	ON X	5000	ANK
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40	PRESS PIPE	E SETTING TO PRESSURE SURE - PSI ANNULUS	OL, RUNNING FRATE DETAIL RATE BPM	CSG, ETC. P Bbl. FLUID PUMPED	FLUID TYPE	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN RIG IN SAFETY ME LINE FILL	EETING: B IS ING WELL I LOCATION IPMENT I SAFETY N	J CREW 4500 PSI RIG (LOC TII	EXP X CC	LANATIO D. REP. BJ	ON X	5000	ANK
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40 13:45	PRESS PIPE	E SETTING TO PRESSURE SURE - PSI ANNULUS	OL, RUNNING //RATE DETAIL RATE BPM	CSG, ETC. P Bbl. FLUID PUMPED 5	FLUID TYPE H2O H2O	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN RIG IN SAFETY ME LINE FILL PRESSURE	EETING: B S ING WELL I LOCATION IPMENT I SAFETY IN EETING WI	J CREW 4500 PSI RIG CONTROL OF THEETING	EXP X CO	BJ	DN X		
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40	PRESS PIPE	E SETTING TO PRESSURE SURE - PSI ANNULUS	OL, RUNNING FRATE DETAIL RATE BPM	CSG, ETC. P Bbl. FLUID PUMPED 5 1 47	FLUID TYPE H2O H2O ULTRABON	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN SAFETY ME LINE FILL PRESSURE ULTRABON BARITE	EETING: B S ING WELL LOCATION IPMENT SAFETY N EETING WI ETEST ID+1 GAL/E	J CREW 4500 PSI RIG CONTROL OF THE CUSTO	EXP X CC	BJ	DN X		
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40 13:45	PRESS PIPE	PRESSURE SURE - PSI ANNULUS	OL, RUNNING //RATE DETAIL RATE BPM	CSG, ETC. P Bbl. FLUID PUMPED 5 1 47	FLUID TYPE H2O H2O ULTRABON MULTIBON	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN RIG IN SAFETY ME LINE FILL PRESSURE ULTRABON BARITE MULTIBON	EETING: B S ING WELL LOCATION IPMENT SAFETY IN EETING WITH TEST ID+1 GAL/E D+1.64 LB/	J CREW 4500 PSI - RIG VI LOC TIII	EXP X CO ME 100 DMER DNC.+2	BJ 000)	DN X		
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40 13:45 13:47 14:00 14:10	PRESS PIPE 200 4500 600	E SETTING TO PRESSURE SURE - PSI ANNULUS	OL, RUNNING FRATE DETAIL RATE BPM 3 1 5.5 5.6 5.5	CSG, ETC. P Bbi. FLUID PUMPED 5 1 47 50 613	FLUID TYPE H2O H2O ULTRABON MULTIBON SLURRY	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN RIG IN SAFETY ME LINE FILL PRESSURE ULTRABON BARITE MULTIBON PREM NE-1	EETING: B S ING WELL N LOCATION IPMENT N SAFETY M EETING WI' E TEST ND+1 GAL/B D+1.64 LB/ I + .35% R-	J CREW 4500 PSI - RIG VI LOC TIII	EXP X CO ME 100 DMER DNC.+2	BJ 000)	DN X		
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40 13:45 13:47 14:00 14:10 16:00	200 4500 600 675 684	E SETTING TO PRESSURE SURE - PSI ANNULUS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OL, RUNNING //RATE DETAIL RATE BPM 3 1 5.5 5.6 5.5 5.5	5 1 47 50 613	FLUID TYPE H2O H2O ULTRABON MULTIBON SLURRY H20	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN RIG IN SAFETY ME LINE FILL PRESSURE ULTRABON BARITE MULTIBON PREM NE-1 WASH LINE	EETING: B S ING WELL N LOCATION IPMENT N SAFETY M EETING WITH TEST ND+1 GAL/B D+1.64 LB/ 1 + .35% R-1	J CREW 4500 PSI - RIG VI LOC TIII	EXP X CO ME 100 DMER DNC.+2	BJ 000)	DN X		
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40 13:45 13:47 14:00 14:10 16:00 16:05	PRESS PIPE 200 4500 600	E SETTING TO PRESSURE SURE - PSI ANNULUS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OL, RUNNING FRATE DETAIL RATE BPM 3 1 5.5 5.6 5.5	5 1 47 50 613	FLUID TYPE H2O H2O ULTRABON MULTIBON SLURRY	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN RIG IN SAFETY ME LINE FILL PRESSURE ULTRABON BARITE MULTIBON PREM NE-1 WASH LINE SUGAR WAS	EETING: B S ING WELL N LOCATION IPMENT N SAFETY M EETING WI ETEST ND+1 GAL/B D+1.64 LB/ 1 + .35% R- ES ATER	J CREW 4500 PSI - RIG VI LOC TIII	EXP X CO ME 100 DMER DNC.+2	BJ 000)	DN X		
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40 13:45 13:47 14:00 14:10 16:00 16:05 16:08	PRESS PIPE 200 4500 600 675 684 600 556	E SETTING TO PRESSURE SURE - PSI ANNULUS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OL, RUNNING //RATE DETAIL RATE BPM 3 1 5.5 5.6 5.5 5.3	5 1 47 50 613	FLUID TYPE H2O H2O ULTRABON MULTIBON SLURRY H20 SUGAR H2	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN RIG IN SAFETY ME LINE FILL PRESSURE ULTRABON BARITE MULTIBON PREM NE-1 WASH LINE SUGAR WA DROP PLU	EETING: B S ING WELL N LOCATION IPMENT N SAFETY M EETING WI ETEST ND+1 GAL/B D+1.64 LB/ I + .35% R-1 ES ATER G	J CREW [4500 PSI - RIG [N(LOC TII MEETING TH CUSTO BBL UB CC BBL ASA- 3 + .2% M	EXP X CO ME 100 DMER DNC.+2	BJ (2.5 GAL/)	DN X		
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40 13:45 13:47 14:00 14:10 16:00 16:05 16:08 16:10	PRESS PIPE 200 4500 600 675 684 600	E SETTING TO PRESSURE SURE - PSI ANNULUS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OL, RUNNING //RATE DETAIL RATE BPM 3 1 5.5 5.6 5.5 5.5	5 1 47 50 613	FLUID TYPE H2O H2O ULTRABON MULTIBON SLURRY H20	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN SAFETY ME LINE FILL PRESSURE ULTRABON BARITE MULTIBON PREM NE-1 WASH LINE SUGAR WA DROP PLU DISPLACEN	EETING: B S ING WELL N LOCATION IPMENT N SAFETY M EETING WI ETEST ND+1 GAL/E D+1.64 LB/ I + .35% R-1 ES ATER G MENT +10 E	J CREW [4500 PSI - RIG [N(LOC TII MEETING TH CUSTO BBL UB CC BBL ASA- 3 + .2% M	EXP X CO ME 100 DMER DNC.+2	BJ (2.5 GAL/)	DN X		
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40 13:45 13:47 14:00 14:10 16:00 16:05 16:08 16:10 17:08	PRESS PIPE 200 4500 600 675 684 600 556	E SETTING TO PRESSURE SURE - PSI ANNULUS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OL, RUNNING //RATE DETAIL RATE BPM 3 1 5.5 5.6 5.5 5.3	5 1 47 50 613	FLUID TYPE H2O H2O ULTRABON MULTIBON SLURRY H20 SUGAR H2	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN RIG IN SAFETY ME LINE FILL PRESSURE ULTRABON BARITE MULTIBON PREM NE-1 WASH LINE SUGAR WA DROP PLU DISPLACEN PLUG DOW	EETING: B S ING WELL N LOCATION IPMENT N SAFETY M EETING WI ETEST ND+1 GAL/B D+1.64 LB/ I + .35% R-1 ES ATER G MENT +10 B	J CREW [4500 PSI - RIG [N(LOC TII MEETING TH CUSTO BBL UB CC BBL ASA- 3 + .2% M	EXP X CO ME 100 ME 100 DMER DNC.+2 301 PA-170	LANATIO D. REP. BJ DO)	DN X X BBLS-5+2	265 LBS/BB	J.
TIME HR:MIN. 10:00 11:00 11:10 12:55 13:30 13:40 13:45 13:47 14:00 14:10 16:00 16:05 16:08 16:10	PRESS PIPE 200 4500 600 675 684 600 556	E SETTING TO PRESSURE SURE - PSI ANNULUS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OL, RUNNING //RATE DETAIL RATE BPM 3 1 5.5 5.6 5.5 5.3	5 1 47 50 613	FLUID TYPE H2O H2O ULTRABON MULTIBON SLURRY H20 SUGAR H2	SAFETY M TEST LINE CIRCULATI ARRIVE ON SPOT EQU PRE RIG IN SAFETY ME LINE FILL PRESSURE ULTRABON BARITE MULTIBON PREM NE-1 WASH LINE SUGAR WA DROP PLU DISPLACEN	EETING: B IS ING WELL I LOCATION IPMENT I SAFETY IN EETING WI ETEST ID+1.64 LB/ I + .35% R- ES ATER G MENT +10 B VIN ESSURE 5 IN	J CREW [4500 PSI RIG [N(LOC TII MEETING TH CUSTO BBL UB CO BBL ASA- 3 + .2% M BBL SUGA	EXP X CO ME 100 ME 100 DMER DNC.+2 301 PA-170	LANATIO D. REP. BJ DO)	DN X X BBLS-5+2	265 LBS/BB	J.



		PRESSURE	RATE DETAIL	1			EXPLANATION
TIME	PRESS	URE - PSI	RATE	Bbl. FLUID	FLUID	SAFETY ME	ETING: BJ CREW X CO. REP. X
R:MIN.	PIPE	ANNULUS	ВРМ	PUMPED	TYPE	TEST LINES	4500 PSI
						CIRCULATIN	IG WELL - RIG BJ X
BUMPED PLUG	PSI TO BUMP PLUG 4400	TEST FLOAT EQUIP. Y	BBL.CMT RETURNS/ REVERSED 0	TOTAL BBL. PUMPED 1075	PSI LEFT ON CSG	SPOT TOP OUT CEMENT Y N	SERVICE SUPERVISOR SIGNATURE:

