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

API <u>47</u> - 061 - 6	1558 0/688 County	Monongalia	District Clay	
Quad Blacksville, WV	Pad Nan	ne Coastal		lacksville
Farm name Coastal Fore	st Resources Compa	ny	Well Number 13H	
Operator (as registered with	the OOG) Northeast	Natural Energy LLC		
Address 707 Virginia St.	Suite 1200		State WV	Zip <u>25301</u>
	hole Northing 4395 Curve Northing 4395	5406.8 668.9	view, and deviation survey Easting 568198.1 Easting 568325.1	
Bottom	Hole Northing 4397	091.0	Easting <u>567253.1</u>	
Elevation (ft) 1,430'	GL Type	of Well ANew 🗆 Exis	sting Type of Report	AInterim □Final
Permit Type Deviate	d 🗆 Horizontal 🛢	Horizontal 6A 🗆 V	ertical Depth Type	□ Deep ■ Shallow
Type of Operation Conv	vert 🗆 Deepen 🖪 🗅	rill 🗆 Plug Back	□ Redrilling □ Rework	□ Stimulate
Well Type	al □ CBM	Dil 🗆 Secondary Recove	ery 🗆 Solution Mining 🗆 St	orage 🗆 Other
•	gle □ Multiple Flu Rotary	ids Produced 🗆 Brine	□Gas □ NGL □ Oil	Other
Drilling Media Surface he	ole ■Air □Mud □	Fresh Water Inter	mediate hole ■ Air □ Mud	☐ Fresh Water ☐ Brine
Production hole	■ Mud □ Fresh Water	□ Brine		
Mud Type(s) and Additive Synthetic Based Mud for horizon		LCIUM CHLORIDE POWDEI	R, G-SEAL PLUS, HRP, LIME, M-1 V	VATE (BARITE), M-I-X II MEDIUM,
MEGADRIL P SYSTEM, MEGADRIL	P SYSTEM RENTAL, MEGAMUL	, SAFE-CARB 250, VERSATHIN I	IF, VERSAWET, VG-PLUS, VINSEAL M	EDIUM, WALNUT NUT PLUG MEDIUM
Date permit issued10/2		ling commenced 11/	21/2014 Date drilling	' <u>-</u>
Date completion activities	pegan N/A	Date comple	etion activities ceased	N/A
Verbal plugging (Y/N)	Date permissi	on granted	Granted by	
Please note: Operator is re	quired to submit a pluggi	ng application within 5	days of verbal permission to p	olug
Freshwater depth(s) ft			(Y/N) depths	N
Salt water depth(s) ft	2,510'	Void(s) enco	untered (47R) depths	N
Coal depth(s) ft	600' , 1,200'	Cavern(s) en	Offica RV/Ny depths	N
Is coal being mined in area	•	N	OCT 07	Reviewed by:

Rev. 8/23/13

API 47-061 _ 0618 0/688 Farm name Coastal Forest Resources Company Well number 13H

CASING	Hole	Casing		New or	Grade	Basket	Did cement circulate (Y/ N)
STRINGS	Size	Size	Depth	Used	wt/ft	Depth(s)	* 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		1		1			
Intermediate 3							
Production	8.5	5.5	14,692'	N	20	N/A	Estimated top 2000'
Tubing		İ					
Packer type and de	epth set		.I		l		

Comment Details _

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³/sks)	Volume (ft ²)	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 N.E 1.3% R-3.3% MPA 170	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 MPlug back procedure					
Kick off depth (ft) 6.560					
Check all wireline logs run	□ caliper □ neutron	□ density □ resistivity	□ deviated/directional		□sonic
Well cored □ Yes ■ No	Conventio	nal Sidewa	all Were o	cuttings collected	■ Yes □ No
DESCRIBE THE CENTRALIZ Surface: bow spring control/zors every 3rd joint or aprox	20"	NT USED FOR	EACH CASING STRI	NG	- 11-4-4-4
Intermediate: bow spring centralizers every 3rd in Production: Hard bodied spiral centralizers ever		from TD to KOP then b	ow spring from KOP to 9 5/8" every f	orth joint or aprox 140'	
WAS WELL COMPLETED AS	S SHOT HOLE	□Yes ■ ì	No DETAILS This	well has not yet been comp	Received
WAS WELL COMPLETED OF	PEN HOLE?	□Yes ■ No	DETAILS		Office of Cil & Gas
WERE TRACERS USED - Y	es ■ No	TYPE OF TR	ACER(S) USED		

API 47- 061 _ 04868 0/688

Farm name Coastal Forest Resources Company Well number 13H

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
ļ					
		<u> </u>			
				<u> </u>	
-					
		-			

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)
			·					
			*					
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			-					
		·				ļ	<u> </u>	
			<u> </u>					and and
							Office	eceived of Ci! & Gas
							Onice	Urise & Cas

Please insert additional pages as applicable.

OCT 07 2015

Title General Manager - Operations

Signature

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Date 10/6/2015

Attach copy of FRACFOCUS Registry

		6	./.	01	68	18											
Describe rock type and record quantity and type of fluid	(freshwater, brine, oil, gas, H2S,	etc)	sand/shale	red rock	sand/shale/silt	sand/shale	limestone	sand/shale	shale	sandstone/shale	shale	shale	limestone	shale	shale	limestone	shale
		Bottom Depth in FT MD									8193	8264	8341	8550	8711	8736	
	Top Depth in FT	MD									7982	8193	8264	8341	8350	8711	8736
	Bottom Depth in FT	DVT	40	290	831	2400	2563	2825	6388	7757	7940	7990	8041	8121	8189	8193	
		Top Depth in FT Name TVD	0	40	290	831	2400	2563	2825	6399	7257	7940	7990	8041	8121	8189	8193
		Lithology/Formation	Sand/Shale	Red Rock	Sand/Shale/Silt	Sand/Shale	Limestone	Sand/Shale	Shale	Sandstone/Shale	Burkett	Geneseo	Tully	Hamilton	Marcellus	Cherry Valley	Lower Marcellus

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	NORTH	EAST N	ATURAL E	NER	DATE	22-	NOV-14 F.	R.# 10011	120026		SEI	RV. SUPV.	Brian Lo	ugh		
COASTAI	LL NAME 13H - API	470610	15880000			ATION LAY						UNTY-PARI Monongalia				
DISTRICT Clarksburg	,		100		DRIL	LING (CONTRACTOR	RIG#				E OF JOB Surface				
SIZE	& TYPE O	PLUG	S	LIS	T-CSG-H	ARDW	ARE	MECHANIC	CAL BARRI	ERS	MD	TVD	HANGER	TYPES	MD	TVD
13-3/8" Top	Cem Plu	n Nitr	cur Phe	Guide Sh	ne Cerr	ent N	ose 13-3/8 i				77					1
			-	Float Col				-								
			1				0.0 0.0		Р	HYSIC	AL SLL	JRRY PROF	PERTIES			
													1 400 100		Т	
						100		SACKS	SLURRY		JRRY .D	WATER GPS	PUMP	Bbl		Bbl MIX
MATERIA	LS FURNIS	SHED B	YBJ			LAB	REPORT NO.		PPG		T	0.0	HR:MIN	SLURR		WATER
H2O									8.34					1	80	
6% GELL+	CELLOFL	AKE+	MILL SEA	L		T			8.5						25	
H2O				-					8.34						10	
PREM NE-	1+1%CAC	CL				T		1,054	15.2		1.26	5.76	03:01		30	140.
H2O									8,34		10,50			-	09	3.451
Available Mi	x Water		500	E	3bl. A	vailable	Displ. Fluid	500	В	bl.	-	тоти	AL I	6	54	140.5
	HOLE	-			17.2		TBG-CSG-					1017		DEPTHS		, ,0,0
SIZE	% EXCE	SS	DEPTH	ID	OD	WGT	All Property and the second	The second second	TVD	GRA	DE	SHOE	State of the last of the last	OAT		AGE
17.5	30		1400	12.62	13.38	54	1.5 CSG	138	30	J-55		138	0	1338		
	LAST CAS	NG			PKR-C	MTRE	T-BR PL-LINE	R PE	RF. DEPTH		TOP	CONN	V	VELL FLU	ID	
ID OD 1	95. CSC	YPE	MD 4	TVD 40	BRAN	D & TY	PE D	EPTH TOP	BTM		3.375 B	HREAD HRND	TYPE OTHER			WGT,
										_						
DISPL. VO	LUME		DISP	L FLUID		CAL. P	SI CAL MA	X PSI OP. M.	AX M/	AX TBO	PSI	MA	X CSG P	SI		MIX
DISPL. VO	LUME		DISP	and the world in		CAL. P		X PSI OP. M.	Control of the last	AX TBO	S PSI Operato		X CSG P			MIX
VOLUME	UOM	H2O		and the world in	GT. BI	JMP PI	LUG TO RE	V. SQ. P	SI RATI	ED (r RATE	D Op	perator	W	ATER
	MOU	H2O		and the world in		JMP PI		AND DESCRIPTION OF THE PERSON NAMED IN	Control of the last	Designation of the last		r RATE		perator		ATER
VOLUME	UOM	H2O		and the world in	GT. BI	JMP PI	LUG TO RE	V. SQ. P	SI RATI	ED (r RATE	D Op	perator	W	ATER
VOLUME 209	BBLS		ТУРЕ	W	8.34	UMP PI	LUG TO RE	0 SQ. P	SI RATI	ED (r RATE	D Op	perator	W	ATER
VOLUME 209	BBLS	LE SET	TYPE	L, RUNNIN	8.34 8.34	UMP PI	LUG TO RE	0 SQ. P	SI RATI	ED (Operato	r RATE	ED Op	perator	W	ATER
VOLUME 209 EXPLANATIO	BBLS N: TROUB	LE SET	TYPE	L, RUNNIN	8.34	UMP PI	TO RE	EV. SQ. P.	O RATI	0	Operato	0 2	ED Op	perator	W	ATER
VOLUME 209	BBLS N: TROUB	LE SET	TYPE	L, RUNNIN	8.34 8.34	ETC. P	LUG TO RE	0 SQ. P	O RATE	0	Dperato ED	0 2	ED Op	perator	W	ATER
VOLUME 209 XPLANATIO TIME	BBLS N: TROUB	LE SET	TYPE TING TOO ESSUREM	L, RUNNIN	8.34 NG CSG,	ETC. P	RIOR TO CEM	EV. SQ. P. 0 SAFETY METEST LINES CIRCULATION	O EETING: B.S.	0 0 0 CREV 2950 F	E)	RATE 0 2	ON X	perator	W	ATER
VOLUME 209 XPLANATIO TIME HR:MIN. 17:30	BBLS N: TROUB	LE SET	TYPE TING TOO ESSUREM	L, RUNNIN	8.34 NG CSG,	ETC. P	RIOR TO CEM	EV. SQ. P. 0 ENTING: SAFETY METEST LINES	O EETING: B.S.	0 0 0 CREV 2950 F	E)	RATE 0 2	ON X	perator	W	ATER
XPLANATIO TIME HR:MIN. 17:30 22:30	BBLS N: TROUB	LE SET	TYPE TING TOO ESSUREM	L, RUNNIN	8.34 NG CSG,	ETC. P	RIOR TO CEM	SAFETY MEST CIRCULATII ARRIVE ON SPOT EQU	O PETING: B. S S S S S S S S S S S S S S S S S S	O CREV 2950 I RIG DN-JC	E) V X PSI DB TIM	RPLANATIO CO. REP. [BJ E 2200 HF	ON X	perator	W	ATER
VOLUME 209 XPLANATIO TIME HR:MIN. 17:30 22:30 22:40	BBLS N: TROUB	LE SET	TYPE TING TOO ESSUREM	L, RUNNIN	8.34 NG CSG,	ETC. P	RIOR TO CEM	SAFETY MEST CIRCULATION ARRIVE ON SAFETY MEST SAFETY SAFETY MEST SAFETY MEST SAFETY MEST SAFETY MEST SAFETY MEST S	EETING: B. S NG WELL - N LOCATIO	O CREV 2950 I RIG ON-JO VITH E	E) V X PSI OB TIM CATIO	RPLANATIO CO. REP. [BJ E 2200 HF	ON X	perator	W	ATER
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TIME HR:MIN. 17:30 22:30 22:40 22:50 00:10	N: TROUB	PR SURE AN	TYPE TING TOO ESSUREM	L, RUNNIN RATE DET/ RATE BPM	IG CSG, I	ETC. P	RIOR TO CEM	SAFETY ME TEST UNES CIRCULATII ARRIVE ON SPOT EQU SAFETY M RIG IN TO	EETING: B. G WELL - N LOCATION IPMENT CETING W	O CREW 2950 I RIG DN-JO DN LO VITH E	Dperato ED V X PSI DB TIMI CATIO BHI CR KS	RPLANATIO CO. REP. [BJ [E 2200 HR	OP OP	750	W	ATER
TIME HR:MIN. 17:30 22:30 22:40 22:50 00:10 00:44	N: TROUB	PR SURE AN	TYPE TING TOO ESSUREM	L, RUNNIN	IG CSG, I	ETC. P	RIOR TO CEM FLUID TYPE	SAFETY ME TEST LINES CIRCULATII ARRIVE ON SPOT EQU SAFETY M RIG IN TO SAFETY M LINE FILL	EETING: B. S. ING WELL - N LOCATIC IPMENT CETING WELL AND	0 CREW 0	ED V X PSI CATION CATION KS KIG CR	RPLANATIO CO. REP. [BJ [E 2200 HR	OP OP	750	W	ATER
TIME HR:MIN. 17:30 22:30 22:40 22:50 00:10 00:44 00:44	N: TROUB	PR SURE AN	TYPE TING TOO ESSUREM	L, RUNNIN	IGCSG, I	ETC. P	FLUID TYPE H2O H2O	SAFETY ME TEST LINES CIRCULATII ARRIVE OI SPOT EQU SAFETY M RIG IN TO SAFETY M LINE FILL PRESSURE	EETING: B. SI RATE O EETING: B. SI S	0 O O O O O O O O O O O O O O O O O O O	PSI CATION KS RIG CR	RPLANATIO CO. REP. [BJ [E 2200 HR	OP OP	750	W	ATER
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TIME HR:MIN. 17:30 22:30 22:40 22:50 00:10 00:44 00:44 00:48 01:30	N: TROUB PRES PIPE	PR SURE AN	TYPE TING TOO ESSUREM	L, RUNNIN	GT. BI 8.34 NG CSG, I Bbl. F PUM	ETC. P	FLUID TYPE H2O H20 H20	SAFETY ME TEST UNES CIRCULATII ARRIVE ON SPOT EQU SAFETY M RIG IN TO SAFETY M LINE FILL PRESSURE H2O SPAC SHUT DOW	EETING: B. O SI O EETING: B. O O O O O O O O O O O O O	O CREV O CREV 22950 I RIG DON-JO DON LO DON LO JOTH F 50 PS AD HO	PSI CATION KS RIG CR	CO. REP. SEEW AND CO. FROM RC	OP 184	750	W	ATER
TIME HR:MIN. 17:30 22:30 22:40 22:50 00:10 00:44 00:44 00:48 01:30 01:40	PRES PIPE	PR SURE AN	TYPE TING TOO ESSUREM	L, RUNNIN	GT. BI 8.34 NG CSG, I AIL Bbl. F PUM	ETC. P	FLUID TYPE H2O H20 H20 GELL	SAFETY ME TEST LINES CIRCULATII ARRIVE ON SPOT EQU SAFETY M RIG IN TO SAFETY M LINE FILL PRESSURE H2O SPAC SHUT DOW 6% GELL+0	EETING: B. SI RATE O EETING: B. SI CONTROL OF THE STORY OF THE STO	O CREV O CREV 2950 I RIG DON-JO DON LO DO TAN VITH F 50 PS AD HO EAN R	PSI CATION KS RIG CR	CO. REP. SEEW AND CO. FROM RC	OP 184	750	W	ATER
TIME HR:MIN. 17:30 22:30 22:40 22:50 00:10 00:44 00:44 00:48 01:30 01:40 01:55	PRES PIPE	PR SURE AN	TYPE TING TOO ESSUREM	L, RUNNIN	GT. BI 8.34 NG CSG, I Bbl. F PUM	5 .2 180 25 10	FLUID TYPE H2O H20 H20 GELL H2O	SAFETY ME TEST LINES CIRCULATII ARRIVE ON SPOT EQU SAFETY M RIG IN TO SAFETY M LINE FILL PRESSURE H20 SPAC SHUT DOW 6% GELL+0	EETING: B. SI RATE O EETING: B. SI S	O CREV 2950 I RIG DN-JC DN LO VITH E 50 PS AD HC EAN R KE+F	PSI CATION SHI CRISCOCKS COCKS EDSE	RATE 0 2: RPLANATIO CO. REP. [BJ E 2200 HF IN EW EW AND 0	DON XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	750 YEAR	TANH	K
TIME HR:MIN. 17:30 22:30 22:40 22:50 00:10 00:44 00:44 00:48 01:30 01:40 01:55 02:10	PRES PIPE	PR SURE AN	TYPE TING TOO ESSUREM	L, RUNNIN	GT. BI 8.34 NG CSG, I Bbl. F PUM	5 .2 180 25 10	FLUID TYPE H2O H20 H20 GELL	SAFETY ME TEST LINES CIRCULATII ARRIVE ON SPOT EQU SAFETY M RIG IN TO SAFETY M LINE FILL PRESSURE H2O SPAC SHUT DOW 6% GELL+0 H20 WATE	EETING: B. SI RATE O EETING: B. SI NG WELL N LOCATION IPMENT OF EETING W WELL AND EETING W ETEST 29 ER TO LO VN TO CLE CELLOFLAR R SPACEF CLASS A 19	O CREV O CREV 22950 F RIG DN-JCO DN LO VITH F 50 PS AD HC KEAN R KE+F R	PSI	RATE 0 2: RPLANATIO CO. REP. [BJ E 2200 HF IN EW EW AND 0	DON XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	750 YEAR	TANH	K
TIME HR:MIN. 17:30 22:30 22:40 22:50 00:10 00:44 00:48 01:30 01:40 01:55 02:10 03:00	PRES PIPE	PR SURE AN	TYPE TING TOO ESSUREM	L, RUNNIN RATE DET/ RATE BPM	IGCSG, INC. Bbl. F. PUM	5 .2 180 25 10 230	FLUID TYPE H2O H20 H20 GELL H2O CEMENT	SAFETY ME TEST UNES CIRCULATII ARRIVE ON SPOT EQU SAFETY M RIG IN TO SAFETY M LINE FILL PRESSURE H20 SPAC SHUT DOW 6% GELL+0 H20 WATEI	EETING: B. SI NG WELL N LOCATION WELL AND EETING W WELL AND EETING W ET TEST 29 ER TO LO VN TO CLE CELLOFLA R SPACEF CLASS A IV VN / DROP	O CREV O CREV 22950 F RIG DN-JCO DN LO VITH F 50 PS AD HC KEAN R KE+F R	PSI	RATE 0 2: RPLANATIO CO. REP. [BJ E 2200 HF IN EW EW AND 0	DON X X X X X X X X X X X X X X X X X X X	750 YAN	W	ATER
TIME HR:MIN. 17:30 22:30 22:40 22:50 00:10 00:44 00:48 01:30 01:40 01:55 02:10 03:00 03:02	PRES PIPE	PR SURE AN	TYPE TING TOO ESSUREM	L, RUNNIN RATE DET/ RATE BPM 5.6	IGCSG, IG	5 .2 180 25 10 230	FLUID TYPE H2O H20 H20 H20 CEMENT H2O	SAFETY ME TEST LINES CIRCULATE ARRIVE ON SPOT EQUI SAFETY M RIG IN TO SAFETY M LINE FILL PRESSURE H2O SPAC SHUT DOW 6% GELL+0 H20 WATE 1054 SKS O SHUT DOW DISPLACE	EETING: B. SI RATE O EETING: B. SI NG WELL NI LOCATION WELL AND EETING W EETING W EETING W ETEST 29 ER TO LO. VIN TO CLE CELLOFLA R SPACEF CLASS A II VIN / DROP MENT	O CREV O CREV 22950 F RIG DN-JCO DN LO VITH F 50 PS AD HC KEAN R KE+F R	PSI	RPLANATIO CO. REP. [BJ [E 2200 HR N EW FROM RO AL	DOCK CAT	750 TOTAL TO	W TANK	K
TIME HR:MIN. 17:30 22:30 22:40 22:50 00:10 00:44 00:48 01:30 01:40 01:55 02:10 03:00	PRES PIPE 13 13 24	PR SURE AN	TYPE TING TOO ESSUREM	L, RUNNIN RATE DET/ RATE BPM 5.6	IGCSG, INC. Bbl. F. PUM	5 .2 180 25 10 230	FLUID TYPE H2O H20 H20 GELL H2O CEMENT	SAFETY ME TEST UNES CIRCULATII ARRIVE ON SPOT EQU SAFETY M RIG IN TO SAFETY M LINE FILL PRESSURE H20 SPAC SHUT DOW 6% GELL+0 H20 WATEI	EETING: B. SI RATE O EETING: B. SI NG WELL - N LOCATION WELL AND EETING W EETING W EETING W EETING W EETING W EETING W ETEST 29 EET TO LO. VIN TO CLE CLASS A II VIN / DROP MENT G	O CREW O	Diperato V X PSI DESTIMATION CATION BHI CR KS RIG CR I DLE OCKS EDSE .NE-14	RPLANATIO CO. REP. [BJ [E 2200 HR N EW FROM RO AL	DON X X X X X X X X X X X X X X X X X X X	750 TOTAL TO	W TANK	K



		PRESSURE	RATE DETAIL				EXPLANATION
TIME	PRESS	URE - PSI	RATE	BЫ. FLUID	FLUID	SAFETY MEI	ETING: BJ CREW X CO. REP. X
IR:MIN.	PIPE	ANNULUS	ВРМ	PUMPED	TYPE	TEST LINES	2950 PSI
						CIRCULATIN	IG 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:
YN	575	YN	40	664	0	Y N	115K 1-11

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CUSTOMER	NORTHEA	ST NATURAL	ENER	DATE	30-	NOV-14 F.	R.# 100	11121	726		SE	RV. SUPV.	Brian Lo	ugh	
COASTAL DISTRICT Clarksburg	13H - API 47	061016880000)	DRILL	AY ING C	CONTRACTOR	RIG#				TY	UNTY-PARI Monongalia \ PE OF JOB Intermediate	West Virgi		
	TYPE OF P	IIIGS	119	T-CSG-H		ALCOHOLD IN	MECHAN	UICAL	DADDIE	De	MD			TVDEC 1	
	24/20/20		Jan 2 San San			- 10000	MECHAI	VICAL	DARRIE	- CA	MD	IVU	IANGER	TPES M	D TVE
9-5/8" Top C	em Plug, N	itrile cvr, Phe	Float Coll		-										
								7	PI	IYSIC	AL SLU	JRRY PROP	ERTIES		
MATERIAL	S FURNISH	ED BY 3J			LAB	REPORT NO.	SACKS OF CEMENT	V	URRY VGT PPG	Y	URRY LD T	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
H2O									8.34					200	
6% GEL WI	TH FLAKE	500 60	1 - 108	Flake					8.5					25	
H2O									8.34					10	
CLASS-A (F	PREM NE-1)					889	9	15.2		1.25	5.75	04:10	191	117.4
H2O DISPL	ACEMENT								8.34					208	
200 LBS SL	IGAR ON T	HE SIDE							8.4					20	
Available Mb	Water	500	В	bl. Av	ailable	Displ. Fluid	50	00	Вь	L		TOTA	L I	654	117.4
	HOLE					TBG-CSG-	D.P.						COLLAR	DEPTHS	
SIZE	% EXCESS		ID	OD	WGT			ID		GRA		SHOE			STAGE
12.25	30	2830	8.921	9.625	-	36 CSG		732		J-55	_	278		2732	
ID OD V	AST CASING WGT TYP 55. CSG	E MC	70 1370	BRAND		T-BR PL-LINE	EPTH TO		DEPTH			CONN THREAD 3 RND	TYPE OTHER	ÆLL FLUID	WGT.
DISPL. VOI	UME	DIS	PL. FLUID	10	AL. P	CAL MAA	v not on			-			V 000 P		
THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	CONTRACTOR OF THE PARTY OF THE					OI CAL IVIA	X PSI OP	MAX	MA	х тво	SPS	P/I A	X CSG P	S	MIX
VOLUME	UOM	TYPE	A ROSE OF THE REAL PROPERTY.		MP PL		X PSI OP.	-	RATE	X TB(Operato		X CSG PS		MIX WATER
VOLUME 208	Contract Land	ТҮРЕ	W		MP PL			-		D (r RATE	D Op	erator	WATER
The second second	Contract Land		W	GT. BU	MP PL	UG TO RE	v. sq.	PSI		STATE OF		r RATE		erator	
208	BBLS H2	TYPE 20 DISPLAC	EMEN W	GT. BU 8.34	MP PL 10	UG TO RE	ev. sq.	PSI		D (r RATE	D Op	erator	WATER
208	BBLS H2	TYPE 20 DISPLAC	EMEN W	GT. BU 8.34	MP PL 10	UG TO RE	ev. sq.	PSI		D (r RATE	D Op	erator	WATER
208	BBLS H2	TYPE	EMEN OL, RUNNIN	8.34 G CSG, E	MP PL 10	UG TO RE	ev. sq.	PSI		D (Operato	or RATE	D Op	erator	WATER
208 XPLANATION	BBLS H2	TYPE O DISPLACE SETTING TO PRESSURE	EMEN OL, RUNNIN	BU 8.34	10	LUG TO RE	ev. sq.	O O	RATE	0	Operato	0 31	D Op	erator	WATER
208	BBLS H2	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN	8.34 G CSG, E	10	UG TO RE	EV. SQ. 0 ENTING:	PSI 0	RATE	O CREV	Operato E	or RATE	D Op	erator	WATER
208 XPLANATION	BBLS H2	TYPE O DISPLACE SETTING TO PRESSURE	EMEN OL, RUNNIN //RATE DETA	BUL BUL BUL BUL BUL	10	OO TO RE	ev. sq.	O O MEETI	RATE	O CREV	Operato E	O 31 XPLANATIO CO. REP.	D Op	erator	WATER
208 XPLANATION	BBLS H2	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN //RATE DETA	BUL BUL BUL BUL BUL	10	OO TO RE	ENTING: SAFETY I TEST LIN CIRCULA	PSI 0	RATE	CREV 150 I	E E X X X PSI	O 31 XPLANATIO CO. REP.	D Op	erator	WATER
ZPLANATION TIME HR:MIN.	BBLS H2	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN //RATE DETA	BUL BUL BUL BUL BUL	10	OO TO RE	ENTING: SAFETY I TEST LIN CIRCULA	PSI 0 MEETI ES TING VO	RATE	CREV 150 I	E E X X X PSI	O 31 XPLANATIO CO. REP. [D Op	erator	WATER
ZPLANATION TIME HR:MIN. 13:00 13:30 13:40	BBLS H2	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN //RATE DETA	BUL BUL BUL BUL BUL	10	OO TO RE	ENTING: SAFETY! TEST LINI CIRCULA' ARRIVE (PSI 0 MEETIES TING NO	RATE	CREV 150 I RIG	E X X PSI	XPLANATIO CO. REP. BJ IE 1400 HF	D Op	erator	WATER
TIME HR:MIN. 13:00 13:30 13:40 13:50	BBLS H2	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN //RATE DETA	BUL BUL BUL BUL BUL	10	OO TO RE	ENTING: SAFETY I TEST LIN CIRCULA ARRIVE (SPOT EC SAFETY I RIG INTO	MEETI ES TING V ON LO	RATEI	CREV 150 I RIG N. JO	EDW X PSI DB TIM	XPLANATIO CO. REP. BJ IE 1400 HF	D Op	erator	WATER
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45	BBLS H2	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	OL, RUNNIN RATE DETA RATE BPM	GT. BU 8.34 GG CSG, E	100 TTC. PI	RIOR TO CEM	ENTING: SAFETY I TEST LINI CIRCULA ARRIVE (SPOT EC SAFETY I RIG INTO SAFETY I	PSI 0 O O O O O O O O O O O O O O O O O O	RATEI	CREV 150 I RIG N. JO	EDW X PSI DB TIM	XPLANATIO CO. REP. BJ IE 1400 HF	D Op	erator	WATER
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45 17:12	BBLS H2 N: TROUBLE PRESSU PIPE	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	OL, RUNNIN RATE DETA RATE BPM	GT. BU 8.34 G CSG, E NL Bbl. FP PUMF	100 TTC. PI	RIOR TO CEM FLUID TYPE	ENTING: SAFETY I TEST LINI CIRCULA ARRIVE (SPOT EC SAFETY I RIG INTO SAFETY I LINE FILL	PSI 0 MEETI ES STING V LCUIPM MEET WELL WELL WELL WELL WELL WELL WELL W	RATE ING: BJ 4 WELL - DOCATIO MENT FING WI	CREV 150 I RIG N. JO	ED V X PSI DB TIMBHI CR	XPLANATIO CO. REP. BJ IE 1400 HF	D Op	erator	WATER
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45 17:12 17:13	PRESSL PIPE	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	OL, RUNNIN RATE DETA RATE BPM	GT. BU 8.34 G CSG, E Bbl. Fl PUMF	100 TTC. PI	FLUID TYPE H2O H2O	ENTING: SAFETY I TEST LINI CIRCULA ARRIVE (SPOT EC SAFETY I RIG INTO SAFETY I LINE FILL PRESSUE	PSI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RATE ING: BJ 4 WELL - DCATIO MENT FING WILL & TAI FING WILL EST TO	CREV 150 I RIG N. JO	W X PSI OB TIM BHI CR RIG CR	XPLANATIO CO. REP. BJ IE 1400 HF	D Op	erator	WATER
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45 17:12 17:13 17:15	PRESSL PIPE	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN IRATE DETA RATE BPM	GT. BU 8.34 G CSG, E Bbl. FI PUMF	100 TTC. PI LUID PED 5 .2 200	FLUID TYPE H2O H2O H2O H2O	ENTING: SAFETY I TEST LINI CIRCULA ARRIVE (SPOT EC SAFETY I RIG INTO SAFETY I LINE FILL PRESSUE PROCES:	PSI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RATE ING: BJ 4 WELL - DCATIO MENT FING WI LL & TAI FING WI EST TO H2O SP	CREVITO IN JOHN STATE OF THE FORMACE	DDB TIM BHI CR RIG CR O PSI R TO L	XPLANATIO CO. REP BJ IE 1400 HF EW EEW & CO.	D Op	1300 TA	NK
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45 17:12 17:13 17:15 17:46	PRESSL PIPE 85 0 300 195	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN RATE DETA RATE BPM 5 2 6.8 5.5	GT. BU 8.34 G CSG, E Bbl. FI PUMF	100 TTC. PI LUID PED 5 .2 200 25	FLUID TYPE H2O H2O H2O GEL	ENTING: SAFETY I TEST LINI CIRCULA' ARRIVE (SPOT EC SAFETY I RIG INTO SAFETY I LINE FILL PRESSUE PROCES: 6% GEL V	PSI 0 O O O O O O O O O O O O O O O O O O	RATE ING: BJ 4 WELL - DCATIO MENT FING WI L & TAI FING WI EST TO H2O SP. FLAKE	CREV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DE TIMES OF PSI R TO L 5000	RATE 0 31 EXPLANATIO CO. REP. BJ IE 1400 HF EW EW & CO.	D Op 110 N X X SS MAN	#F)q	water NK
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45 17:12 17:13 17:15 17:46 17:49	PRESSL PIPE 85 0 300 195 190	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN /RATE DETA RATE BPM 5 2 6.8 5.5	GT. BU 8.34 GG CSG, E Bbl. FI PUMIS	100 TTC. PI LUID PED 5 .2 200 25 10	FLUID TYPE H2O H2O H2O GEL H2O	ENTING: SAFETY I TEST LINI CIRCULA' ARRIVE (SPOT EC SAFETY I RIG INTO SAFETY I LINE FILL PRESSUE PROCES: 6% GEL V	PSI 0 O O O O O O O O O O O O O O O O O O	RATE ING: BJ 4 WELL - DCATIO MENT FING WI L & TAI FING WI EST TO H2O SP. FLAKE	CREV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DE TIMES OF PSI R TO L 5000	RATE 0 31 EXPLANATIO CO. REP. BJ IE 1400 HF EW EW & CO.	D Op 110 N X X SS MAN	#F)q	water NK
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45 17:12 17:13 17:15 17:46	PRESSL PIPE 85 0 300 195	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN RATE DETA RATE BPM 5 2 6.8 5.5	GT. BU 8.34 GG CSG, E Bbl. FI PUMIS	100 TTC. PI LUID PED 5 .2 200 25 10	FLUID TYPE H2O H2O H2O GEL	ENTING: SAFETY I TEST LINI CIRCULA' ARRIVE (SPOT EC SAFETY I RIG INTO SAFETY I LINE FILL PRESSUE PROCES: 6% GEL V	PSI 0 O O O O O O O O O O O O O O O O O O	RATE ING: BJ 4 WELL - DCATIO MENT FING WI L & TAI FING WI EST TO H2O SP. FLAKE	CREV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DE TIMES OF PSI R TO L 5000	RATE 0 31 EXPLANATIO CO. REP. BJ IE 1400 HF EW EW & CO.	D Op 110 N X X SS MAN	#F)q	water NK
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45 17:12 17:13 17:15 17:46 17:49	PRESSL PIPE 85 0 300 195 190	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN /RATE DETA RATE BPM 5 2 6.8 5.5	GT. BU 8.34 GG CSG, E Bbl. FI PUMIS	100 TTC. PI LUID PED 5 .2 200 25 10	FLUID TYPE H2O H2O H2O GEL H2O	ENTING: SAFETY I TEST LINI CIRCULA' ARRIVE (SPOT EC SAFETY I RIG INTO SAFETY I LINE FILL PRESSUE PROCES: 6% GEL V	MEETI ES CONTROL OF CO	RATE ING: BJ 4 WELL - DCATIO MENT FING WI EST TO H2O SP FLAKE R SPACE F CLASS	CREV 150 I RIG N. JO 1TH E NKS 1TH F	DPSI R TO L SOCO	XPLANATIO CO. REP BJ IE 1400 HF EW EEW & CO.	D Op 110 N X RS MAN E - /00 IP-63.6 (#F/a	water NK
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45 17:12 17:13 17:15 17:46 17:49 17:51	PRESSL PIPE 85 0 300 195 190 400	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN /RATE DETA RATE BPM 5 2 6.8 5.5	GT. BU 8.34 GG CSG, E NIL Bbl. FI PUMI	5 .2 200 25 10 191	FLUID TYPE H2O H2O H2O GEL H2O	ENTING: SAFETY I TEST LINI CIRCULA: ARRIVE (SPOT ECI SAFETY I RIG INTO SAFETY I LINE FILL PRESSUE PROCES: 6% GEL V FRESH W 889 SACE	MEETI SES OF WITH MATER AS OF WWW MATER AS OF	RATE ING: BJ 4 WELL - DOCATIO MENT FING WI LL & TAI FING WI EST TO H2O SP FLAKE R SPACE F CLASS	CREV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DPSI R TO L SOCO	RATE 0 31 XPLANATIO CO. REP. BJ IE 1400 HF EW EEW & CO. COAD HOLD ACCORD NE-1) TEM	D Op I10 N X X RS MAN E - /00 IP-63.6	# F/a) degree f HCCe CC Of (ke ived
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45 17:12 17:13 17:15 17:46 17:49 17:51	PRESSL PIPE 85 0 300 195 190 400	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN /RATE DETA RATE BPM 5 2 6.8 5.5 5.3	GT. BU 8.34 GG CSG, E NIL Bbl. FI PUMI	5 .2 200 25 10 191	H2O H2O GEL H2O CEMENT	ENTING: SAFETY I TEST LINI CIRCULA: ARRIVE (SPOT EC SAFETY I RIG INTO SAFETY I LINE FILL PRESSUE PROCES: 6% GEL V FRESH W 889 SACK SHUT DO DISPLACE LAND PLE	MEETING NOON LOOK NOON LOO	RATE ING: BJ 4 WELL - DCATIO MENT FING WITH EST TO H2O SP FLAKE R SPACE CLASS DROP NT WITH	CREV 150 I 150 I 1	DE TIMES OF PREMERS OF SECOND	RATE 0 31 XPLANATIO CO. REP. BJ IE 1400 HF EW CEW & CO. OAD HOLI OF Ge) NE-1) TEM	D Op I10 N X X RS MAN E - /00 IP-63.6	# F/a) degree f HCCe CC Of (ke ived
TIME HR:MIN. 13:00 13:30 13:40 13:50 16:45 17:12 17:13 17:15 17:46 17:49 17:51	BBLS H2 N: TROUBLE PRESSL PIPE 85 0 300 195 190 400 0 1100	TYPE 20 DISPLACE SETTING TO PRESSURE JRE - PSI	EMEN OL, RUNNIN /RATE DETA RATE BPM 5 2 6.8 5.5 5.3	GT. BU 8.34 GG CSG, E NIL Bbl. FI PUMI	5 .2 200 25 10 191	H2O H2O GEL H2O CEMENT	ENTING: SAFETY I TEST LINI CIRCULA: ARRIVE (SPOT EC SAFETY I RIG INTO SAFETY I LINE FILL PRESSUE PROCES: 6% GEL V FRESH W 889 SACK	MEETING WELL ODN LC UIPM MEET RETE SED I WITH VATEI KS OF	RATER ING: BJ 4 WELL - DOCATIO MENT FING WITH EST TO H2O SP FLAKE R SPACE CLASS DROP NT WITH	CREV 0 0 0 0 0 0 0 0 150 I RIG N. JO 150 I 150 I 15	DE TIMES OCESSES	RATE 0 31 XPLANATIO CO. REP. BJ IE 1400 HF EW CEW & CO. OAD HOLD A Ge) NE-1) TEM SED H20 FLOATS	D Op I10 N X X RS MAN E - /00 IP-63.6	#F/a	ke ived



		PRESSURE	RATE DETAIL					EXPLANATI	ON
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	4150 PS	Ī	
						CIRCULATIN	GWELL - RIG	BJ	X
BUMPED	PSI TO BUMP	TEST FLOAT	BBL.CMT RETURNS/	TOTAL BBL.	PSI LEFT ON	SPOT TOP OUT	SERVICE SUPE	RVISOR SIGNA	TURE:
PLUG	PLUG	EQUIP.	REVERSED	PUMPED	CSG	CEMENT	10	//	
YN	1000	YN	15	651	0	YN	1158	1:1	

Received
Office of CV & Gas
OCT 07 2015



	NORTH	EAST NATU	RALEN		DATE 13-	MAR-15 F.F	R.# 1001	1143805		SE	RV. SUPV.	Brian Lo	ough	
		PI 47061016	880000		LOCATION CLAY					100	UNTY-PAR Monongalia			
Clarksburg	n				DRILLING O	ONTRACTOR	RIG#			0.00	e OF JOB			
	TYPE OF	PLUGS		LIST-	CSG-HARDW	171100	MECHANI	CAL BARRIE	ERS	MD		HANGER	TYPES M	D TVD
W 1000	10.00	er, Top 5-1/	2 5103	The Late										
zomone i io	ig, itabb	ci, 10p 5-17		Service Property		Nose, 5-1/								
		-	-	0110	1	11000, 0 11		PI	IYSICA	L SLL	IRRY PROF	PERTIES		
							SACKS	SLURRY WGT	7.1.	RRY	WATER GPS	PUMP TIME	Bbl	Bbl MIX
MATERIAL	S FURNIS	HED BY BJ			LAB	REPORT NO.	CEMENT	PPG	FT			HR:MIN	SLURRY	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	T	1.17	5.15	5	586.14	343.6
Sugar Wate	er before	Plug (100	LBS)					8.34					3	
Fresh Water	er							8.34					326.40	
150 LBS O	FSUGA	R FOR CLE	AN U	P				8.34					50	
Available Mix	Water_	750		Bbl	. Available	Displ. Fluid	750	Bi	ol.		TOT	AL I	1065.54	343.6
	HOLE					TBG-CSG-	D.P.					COLLAR	DEPTHS	
SIZE	% EXCES				OD WGT				GRAD)E	SHOE			STAGE
8.5	10	147	28 4.	778		20 CSG	147				147		14708	
	AST CASI					T-BR PL-LINE		RF. DEPTH		W. E.	CONN		VELL FLUID	
8.8 9.63	40 CSG		799 2		BRAND & TY	PE D	EPTH TOP	ВТМ	S		BUTT	SYNTHE	ETIC MUD	WGT. 12.5
	219				641 -	0.000	v not ==							MIX
DISPL. VOL	1	100	SPL. FL	UID	CAL, P		X PSI OP. M		X TBG			AX CSG P		WATER
		mark 2 a	100	10700	DIMED D	UC TO DE	W CO 5	CI DATE	in c	Inquet.	DAT			
VOLUME	UOM	TYI		WG	100000	Sec. 2010	2000		-	perate			perator	
Contraction of	-	Fresh Wate		-	Call Street, Sept.	OC TO RE	0 SQ. P	O RATE	0	perate	2	1112	perator	NKS
Comments.	-			-	Call Street, Sept.	Sec. 2010	2000		-	perate	2		perator	
326.4	BBLS	Fresh Wate		8	.34 40	Sec. 2010	0		-	perate	2		perator	
326.4	BBLS	resh Wate	OOL, R	8 UNNING	.34 40	оос	0		-		0 10	0112	perator	
326.4	BBLS	Fresh Wate	OOL, R	8 UNNING	.34 40	оос	0		-		2	0112	perator	
326.4 EXPLANATION	BBLS PRES	PRESSUR SURE - PSI	OOL, R	UNNING DETAIL	CSG, ETC. F	PRIOR TO CEN	0 MENTING:	0 EETING: B.	0 J CREV	E X	0 10	0112 DN	perator	
326.4	BBLS F	Fresh Wate	OOL, R	UNNING DETAIL	.34 40	PRIOR TO CEM	O MENTING: SAFETY M TEST LINE	EETING: B.	O CREW	E V X	O 10 XPLANATIO CO. REP.	0112 ON X	perator	
326.4 XPLANATION TIME HR:MIN.	BBLS PRES	PRESSUR SURE - PSI	OOL, R	UNNING DETAIL	CSG, ETC. F	PRIOR TO CEN	O MENTING: SAFETY M TEST LINE CIRCULAT	EETING: B. S	J CREV 700C F	EX X	O 10 XPLANATIO CO. REP. BJ	0112 ON X	500C TA	
326.4 EXPLANATION TIME HR:MIN. 02:35	BBLS PRES	PRESSUR SURE - PSI	OOL, R	UNNING DETAIL	CSG, ETC. F	PRIOR TO CEN	O MENTING: SAFETY M TEST LINE	EETING: B. S NG WELL -	J CREV 700C F RIG	V X PSI X JOB	CO. REP. BJ TIME 01	0112 ON X	500C TA	
326.4 XPLANATION TIME HR:MIN.	BBLS PRES	PRESSUR SURE - PSI	OOL, R	UNNING DETAIL	CSG, ETC. F	PRIOR TO CEM	MENTING: SAFETY M TEST LINE CIRCULATI ARRIVE (EETING: B. S NG WELL - ON LOCA'	J CREV 700C F RIG TION.	V X PSI X JOB	CO. REP. BJ TIME 01	0112 ON X	500C TA	
XPLANATION TIME HR:MIN. 02:35 02:45	BBLS PRES	PRESSUR SURE - PSI	OOL, R	UNNING DETAIL	CSG, ETC. F	PRIOR TO CEM	MENTING: SAFETY M TEST LINE CIRCULATI ARRIVE (SPOT EQ	EETING: B. S NG WELL - ON LOCA UIPMENT	J CREW 700C F RIG TION.	EX X SOLOCA	CO. REP. BJ TIME 01	0112 ON X	500C TA	
326.4 EXPLANATION TIME HR:MIN. 02:35 02:45 03:05	BBLS PRES	PRESSUR SURE - PSI	OOL, R	UNNING DETAIL	CSG, ETC. F	PRIOR TO CEM	SAFETY M TEST LINE CIRCULATI ARRIVE (SPOT EQ SAFETY	EETING: B. S NG WELL - ON LOCA UIPMENT MEETING O WELL &	J CREW 7000 F RIG TION. TON I	PSI X JOB LOCA H BHI	XPLANATION TIME 01 ATION CREW	DN X X 30 HOU	500C TA	
326.4 EXPLANATION TIME HR:MIN. 02:35 02:45 03:05 03:12	BBLS PRES	PRESSUR SURE - PSI	OOL, R	UNNING DETAIL	CSG, ETC. F	PRIOR TO CEM	SAFETY M TEST LINE CIRCULAT ARRIVE C SPOT EC SAFETY RIG IN TO	EETING: B. S NG WELL - ON LOCA UIPMENT MEETING O WELL &	O CREW 700C F RIG TION. TON I WITH TANH	JOB LOCA H BHI	CO. REP. BJ TIME 01 ATION CREW	DN X X 30 HOU	500C TA	
326.4 EXPLANATION TIME HR:MIN. 02:35 02:45 03:05 03:12 04:30	BBLS PRES	PRESSUR SURE - PSI	OOL, R	UNNING DETAIL	CSG, ETC. F	PRIOR TO CEM	SAFETY M TEST LINE CIRCULATI ARRIVE (SPOT EQ SAFETY RIG IN TO	EETING: B. S NG WELL - ON LOCA UIPMENT MEETING O WELL & E WITH PI	O CREW 700C F RIG TION. TON I WITH TANH	JOB LOCA H BHI (S ON B	CO. REP. BJ TIME 01 ATION CREW ATCH MI	DN X X 30 HOUI	500C TA	
326.4 XPLANATION TIME HR:MIN. 02:35 02:45 03:05 03:12 04:30 07:30	PRES: PIPE	PRESSURE - PSI ANNULU	OOL, R	DETAIL SPM	CSG, ETC. F Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MENTING: SAFETY MENTING: CIRCULATION SPOT EQUIPMENT SAFETY RIG IN TOTAL SAFETY RIG IN HELLINE FILL	EETING: B. S NG WELL - ON LOCA' UIPMENT MEETING WELL & E WITH PI MEETING EAD & MA	J CREW 7000 F RIG TION. TON I WITH TANK UMP	EXV X SSI JOB LOCA	CO. REP. BJ TIME 01 ATION CREW ATCH MI CREW WASH U	DN X X 30 HOUI	500C TA	
326.4 XPLANATION TIME HR:MIN. 02:35 02:45 03:05 03:12 04:30 07:30 07:45 08:44 08:45	PRES: PIPE	PRESSURE - PSI ANNULU	OOL, R	DETAIL ATE SPM	CSG, ETC. F Bbl. FLUID PUMPED 5 1	FLUID TYPE H2O	SAFETY MENTING: SAFETY MENTINE CIRCULATE ARRIVE CONTROL SAFETY RIG IN TO TROUBLE SAFETY RIG IN HE LINE FILL PRESSU	EETING: B. S NG WELL - ON LOCA' UIPMENT MEETING WELL & WITH PI MEETING EAD & MA	J CREW 7000 F RIG TION. TON I WITH TANK UMP	EXV X SSI JOB LOCA	CO. REP. BJ TIME 01 ATION CREW ATCH MI CREW WASH U	DN X X 30 HOUI	500C TA	
326.4 EXPLANATION TIME HR:MIN. 02:35 02:45 03:05 03:12 04:30 07:30 07:45 08:44 08:45 08:16	PRES: PIPE	PRESSURE - PSI ANNULU	OOL, R	DETAIL ATE SPM	Bbl. FLUID PUMPED 5 1 47	FLUID TYPE H20 H20 PREFLUS	SAFETY MENTING: SAFETY MENTINE CIRCULATE ARRIVE CONTECT SAFETY RIG IN TOTAL TROUBLE SAFETY RIG IN HELINE FILL PRESSULULTRABO	EETING: B. S NG WELL - ON LOCA UIPMENT MEETING WELL & E WITH PI MEETING EAD & MA	J CREW 7000 F RIG TION. TON I WITH TANK UMP	EXV X SSI JOB LOCA	CO. REP. BJ TIME 01 ATION CREW ATCH MI CREW WASH U	DN X X 30 HOUI	500C TA	
326.4 XPLANATION TIME HR:MIN. 02:35 02:45 03:05 03:12 04:30 07:30 07:45 08:44 08:45 08:16 08:58	PRESS PIPE	PRESSURE - PSI ANNULU 00 00 00 00 00 00	OOL, R	DETAIL ATE SPM 5 1 4 5.5	Bbi. FLUID PUMPED 5 1 47	FLUID TYPE H20 H20 PREFLUS	SAFETY M TEST LINE CIRCULATI ARRIVE O SAFETY RIG IN TO TROUBLE SAFETY RIG IN HE LINE FILL PRESSU	EETING: B. S NG WELL - ON LOCA UIPMENT MEETING O WELL & E WITH PI MEETING EAD & MA	J CREW 7000 F RIG TION. TON I WITH TANH UMP O WITH NIFO	V X X X X X X X X X X X X X X X X X X X	XPLANATION CO. REP. BJ TIME 01 ATION CREW ATCH MI GCREW WASH U	DN X 30 HOUI	500C TA	ANKS
326.4 EXPLANATION TIME HR:MIN. 02:35 02:45 03:05 03:12 04:30 07:30 07:45 08:44 08:45 08:16 08:58 09:07	PRESS PIPE	PRESSURE - PSI ANNULU 00 00 00 00 00 00 00 00 00 00 00 00 0	OOL, R	DETAIL ATE SPM 5 1 4 5.5 6	34 40 CSG, ETC. F Bbl. FLUID PUMPED 5 1 47 46 568	FLUID TYPE H20 H20 PREFLUS PREFLUS CEMENT	SAFETY MENTING: SAFETY MENTINE CIRCULATE ARRIVE CONTROL SAFETY RIG IN TO TROUBLE SAFETY RIG IN HE LINE FILL PRESSU ULTRABO MULTIBO 2804 SAC TEMP WA	EETING: B. S NG WELL - ON LOCA UIPMENT MEETING WELL & E WITH PI MEETING EAD & MA RETEST OND ND KS OF C	J CREW 7000 F RIG TION. TON I WITH TANH UMP WITH NIFO TO 70	V X JOB LOCA H BHI CS ON BH RIGELD / V A 500 S f	CO. REP. BJ TIME 01 ATION CREW ATCH MI CREW WASH UI	DN X 30 HOUI	500C TA	ANKS
326.4 XPLANATION TIME HR:MIN. 02:35 02:45 03:05 03:12 04:30 07:30 07:45 08:44 08:45 08:16 08:58 09:07	PRESS PIPE	PRESSURE - PSI ANNULU 00 00 00 00 00 00 00 00 00 00 00 00 0	OOL, R	5 1 4 5.5 6	.34 40 CSG, ETC. F Bbi. FLUID PUMPED 5 1 47 46 568	FLUID TYPE H20 H20 PREFLUS PREFLUS CEMENT	SAFETY MENTING: SAFETY MENTINE CIRCULATE ARRIVE CONTECT SAFETY RIG IN TOTAL TROUBLE SAFETY RIG IN HELINE FILL PRESSULULTRABO MULTIBO 2804 SACTEMP WASHUT DO	EETING: B. S NG WELL - ON LOCA UIPMENT MEETING WELL & WITH PI MEETING EAD & MA RETEST OND ND KS OF C	J CREW 7000 F RIG TION. TON I WITH TANH UMP O WITH NIFO	V X X X X X X X X X X X X X X X X X X X	CO. REP. BJ TIME 01 ATION CREW ATCH MI CREW WASH UI	DN X 30 HOUI	500C TA	ANKS
326.4 EXPLANATION TIME HR:MIN. 02:35 02:45 03:05 03:12 04:30 07:30 07:45 08:44 08:45 08:16 08:58 09:07	PRESS PIPE	PRESSURE - PSI ANNULU 00 00 00 00 00 00 00 00 00 00 00 00 0	OOL, R	DETAIL ATE SPM 5 1 4 5.5 6	.34 40 CSG, ETC. F Bbi. FLUID PUMPED 5 1 47 46 568	FLUID TYPE H20 H20 PREFLUS PREFLUS CEMENT	SAFETY MENTING: SAFETY MENTINE CIRCULATE ARRIVE CONTROL SAFETY RIG IN TO TROUBLE SAFETY RIG IN HE LINE FILL PRESSU ULTRABO MULTIBO 2804 SAC TEMP WA	EETING: B. S NG WELL - ON LOCA WIPMENT MEETING WELL & WITH PI MEETING AD & MA RETEST OND ND RKS OF CI S 55 DEC	J CREW 7000 F RIG TION. TON I WITH TANH UMP O WITH NIFO TO 70	V X JOB LOCA H BHI (S ON B H RIGELD / S INES S)	CO. REP. BJ TIME 01 ATION CREW ATCH MI CREW WASH UI	DN X 30 HOUI	5000 TA	ANKS

Report Printed on MAR-19-15 11:00:59

Page 1



		PRESSUR	E/RATE DETAIL				EXPLANATION
TIME IR:MIN.	PRESSU	URE - PSI	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY ME	ETING: BJ CREW X CO. REP. X 700C PSI
	1112	AIMOLOC					G WELL - RIG X BJ X
11:45	3500		3		H20	SHUT DOV	VN. PLUG DIDNT LAND
12:00	0					PUMPER.	PRESSURE TO PUMPER. FOUR BBLS H2O RETURN FLOATS HELD
12:10	0					END JOB	
BUMPED PLUG Y N	PSI TO BUMP PLUG	BUMP FLOAT		TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT SERVICE SUPERVISOR SIGNATURE:	
	4000	200 Dec. 100 a	REVERSED 10	1012	0	Y N	
							I
							Receiver Office of A

Report Printed on: MAR-19-15 11:00:59

Page 2

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