

COUNTY	COMPANY	API Number
WELD (CO)	CUB CREEK ENERGY LLC	512347899
WELL NAME	RIG	JOB TYPE
KNIGHT 3	Icon 12	CM-SURFACE CASING
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.19784 -105.04197	Anthony Staples	Trenton Rico

EMPLOYEES		
ANTHONY STAPLES		
WINSTON		
CARLOS GONZALAS		

WELL PROFILE			
Max Treating Pressure (psi):		Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	

### Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	13.5				
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

### Casing/Tubing/Drill Pipe

Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Surface	9.625	36	J55				

### CEMENT DATA

Stage 1:	From Depth (ft):		To Depth (ft):	
Type: LEAD	Volume (sacks):	215	Volume (bbls):	99.6
Cement & Additives:				
100% NCM-922 + 2% NAC-101 + 2% NAC-102 + 2% NAC-110 + .4% NFP-701 + .25 PPS NLM-600				
	Density (ppg)	11.8	Yield (ft³/sk)	2.60
	Water Req.			15.55

Stage 2:	From Depth (ft):		To Depth (ft):	
Type: Surface Plug	Volume (sacks):	155	Volume (bbls):	53.2
Cement & Additives:				
100% NCM-922 + 2% NAC-101 + 2% NAC-102 + 2% NAC-110 + .4% NFP-701+ .25 PPS NLM-600				
	Density (ppg)	13	Yield (ft³/sk)	1.93
	Water Req.			10.53

Stage 3:	From Depth (ft):		To Depth (ft):	
Type: Top Off	Volume (sacks):		Volume (bbls):	
Cement & Additives:				
	Density (ppg)		Yield (ft³/sk)	
	Water Req.			

Stage 4:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbls):	
Cement & Additives:				
	Density (ppg)		Yield (ft³/sk)	
	Water Req.			

### SUMMARY

Preflushes:	20 bbls of Fresh Water	Calculated Displacement (bbl):	Stage 1	Stage 2
		Actual Displacement (bbl):		
Total Preflush/Spacer Volume (bbl):	20	Plug Bump (Y/N):	Y	Bump Pressure (psi):
Total Slurry Volume (bbl):	153	Lost Returns (Y/N):	N	(if Y, when)
Total Fluid Pumped				
Returns to Surface:				

Job Notes (fluids pumped / procedures / tools / etc.): Pumped 20 bbls of fresh water spacer, Batch, Weighed, and Pumped 215 sks (99.6)bbls of 11.8# of Lead Cement, Followed by 155 sks (53.2) bbls of 13# Tail Cement.

Thank You For Using

NexTier Completion Solutions

Customer Representative Signature:

<div>NEXTIER</div>		Date		Time		DISTRICT		
		YARD CALL				Brighton - 3021		
		RTS DATE	15-Sep-2020	12:00:00 AM				
Personnel/Equipment								
Driver	Assignment	3	Tractor	Trailer	Comments			
ANTHONY STAPLES								
WINSTON		Primary Pump Unit:		44-5070				
CARLOS GONZALAS		Secondary Pump Unit:			477			
BLEND INFO								
343-JLP[Job 1]								
Amount	Units	System/Additives			Excess	Density (ppg)	Yield (cuft/sk)	Water Req. (gal/sk)
0	SX	0						
0.00					0%		-	-
0.00	SX	Spacer 2 - 20 bbl Fresh Water						
20.00	bbl				0%		-	-
215	SX	Lead						
99.44	bbl	100 % NCM-922 +2.0 % NAC-101+2.0 % NAC-102+2.0 % NAC-110+0.4 % NFP-701+0.25 PPS NLM-600			12%	11.8	2.60	15.55
155	SX	Tail						
51.99	bbl	100 % NCM-922 +2.0 % NAC-101+2.0 % NAC-102+2.0 % NAC-110+0.4 % NFP-701+0.25 PPS NLM-600			12%	13	1.93	10.53
0	SX	Displacement - To be Calculated on Location						
114.26	bbl				0%			
0	SX							
0.00					0%			
0	SX							
					0%			
0	SX							
					0%			
0	SX							
0.00					0%			

## Cement Job Log



Customer:	CUB CREEK ENERGY LLC	Date:	15-Sep-20	Serv. Supervisor:	Anthony Staples		
Cust. Rep.:	Trenton Rico	Ticket #:	BCO-2009-0012	Serv. Center	Brighton - 3021		
Well Name:	KNIGHT 3	API Well #:	512347899	County:	WELD (CO)	State:	COLORADO
Well Type:	Oil	Rig:	Icon 12	Type of Job:	CM-SURFACE CASING		

## Materials Furnished by NexTier

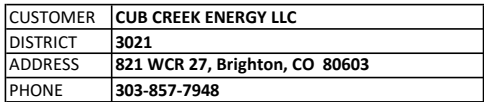
Plugs	Casing Hardware	Physical Slurry Properties						
		Sacks of Cement	Fluid Density (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Mix Water (bbls)
0				0%	-	-		
Spacer 2 - 20 bbl Fresh Water				0%	-	-	20.00	
Lead	100 % NCM-922 +2.0 % NAC-101+2.0 % NAC-102+2.0 % NAC-110+0.4 % NFP-701+0.25 PPS NLM-600	215	11.8	12%	2.60	15.55	99.73	80
Tail	100 % NCM-922 +2.0 % NAC-101+2.0 % NAC-102+2.0 % NAC-110+0.4 % NFP-701+0.25 PPS NLM-600	155	13	12%	1.93	10.53	53.39	39
Displacement - To be Calculated on Loca				0%	-	-	114.26	
				0%	-	-		
				0%	-	-		
				0%	-	-		
				0%	-	-		
				0%	-	-		

Displacement Chemicals:	
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OPEN HOLE DATA				TUBULAR DATA									
13.5 in. O.H. 0 to 1,520 ft				9.625 in. 36#, ( 0 to 1,520 ft)			SIZE WEIGHT	THRD	DEPTH	GRADE	ID	BURST	COLLAPSE
									(ft)		(in)	(psi)	(psi)
Mix Cemt. Temperature °F	Lead Tmp.	Middle Temp.	Tail Temp.										
PREVIOUS CASING DATA				PERFORATED INTERVAL DATA						CASING EQUIPMENT DEPTHS			
				TOP		BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP	
WELL FLUID		DISPLACEMENT FLUID				DIFF PRESS	CSG LIFT	MAX PRESS	Total Number of Runs			WATER ON LOC (bbl)	
TYPE	DENSITY	VOLUME	TYPE	DENSITY	(psi)	(psi)	(psi)						
H2O	8.4 ppg												
Bumped Plug	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Casing Rotation	Additional Hrs Charged (hrs)	Casing Reciprocation	Rathole Length (ft)		
Yes		Y											

Comments/Special Customer Instructions:

						Anthony Staples		15-Sep-20
						Service Supervisor		Date



AFE #		PO:	
LEASE NAME / NUMBER		API WELL NUMBER	
KNIGHT 3		51234789	
SECTION	TOWNSHIP	RANGE	COUNTY, STATE
SWNE 30	3N	68W	WELD (CO), COLORADO
WELL PERMIT NUMBER			
JOB TYPE		CM-SURFACE CASING	
Vehicle Type		Single	

TICKET	BCO-2009-0012	
DATE	9/15/2020	
CREW INFORMATION		
SUPERVISOR	Anthony Staples	
PUMP UNIT	44-5070	
NUMBERS		
ARRIVAL (D&T)	9/15/20 12:00 AM	
DEPARTURE (D&T)	9/15/20 12:00 AM	

342-JLPjob 1

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## 12

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Customer Name Printed \_\_\_\_\_

Customer Signature \_\_\_\_\_

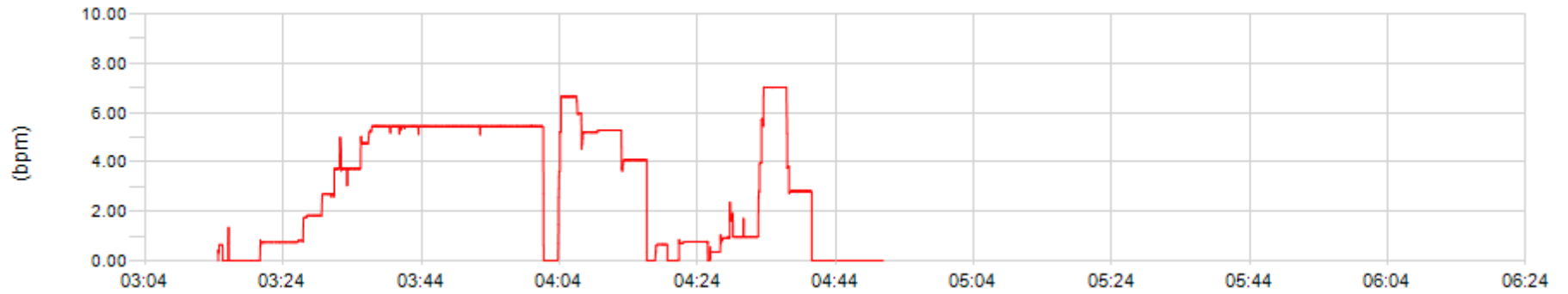
Date Signed \_\_\_\_\_

Client CUB CREEK  
Ticket No. 20090012  
Location  
Comments

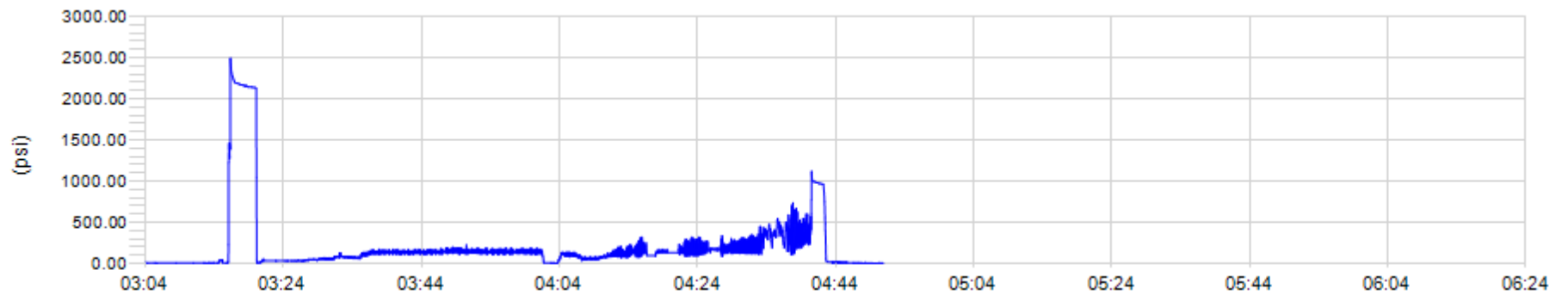
Client Rep  
Well Name KNIGHT 3  
Job Type Surface Casing

Supervisor ANTHONY STAPLES  
Unit No. 445070  
Service District BRIGHTON  
Job Date 09/16/2020

Unit 445070 Rate Total



Unit 445070 Pump Pressure



Unit 445070 Density

