

<b>NEXTIER</b>		<b>Job Summary</b>		Ticket Number	Ticket Date
		TN#	BCO-2009-0006	9/2/2020	
COUNTY	COMPANY		API Number		
WELD (CO)	CUB CREEK ENERGY LLC		512347904		
WELL NAME	RIG	JOB TYPE			
KNIGHT 10	Ikon 12	CM-SURFACE CASING			
SURFACE WELL LOCATION		CJES Field Supervisor	CUSTOMER REP		
40.19763 105.04197		Anthony Staples	Trenton Rico		
EMPLOYEES					
Anthony Staples		Jake Prock			
Tony Yates					
Robert L					
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	0	1544	0	1544
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	0	1515	0	1515
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)

**CEMENT DATA**

**Stage 1:**  
Type: Lead

From Depth (ft): 0 To Depth (ft): 939

Volume (sacks): 210 Volume (bbls): 97.2

Cement & Additives: Density (ppg) Yield (ft³/sk) Water Req.

100% NCM-922 + 2.0% NAC-101 + 2% NAC-102 + 2% NAC-110 + .4% NFP-701 + .25 PPS NLM-600 11.8 2.60 15.55

**Stage 2:**  
Type: Tail

From Depth (ft): 939 To Depth (ft): 1515

Volume (sacks): 150 Volume (bbls): 51.6

Cement & Additives: Density (ppg) Yield (ft³/sk) Water Req.

100% NCM-922 + 2% NAC-101 + 2% NAC-102 + 2% NAC-110% + .4% NFP-701 + .25 PPS NLM-600 13 1.93 10.53

**Stage 3:**  
Type:

From Depth (ft): To Depth (ft):

Volume (sacks): Volume (bbls):

Cement & Additives: Density (ppg) Yield (ft³/sk) Water Req.

**Stage 4:**  
Type:

From Depth (ft): To Depth (ft):

Volume (sacks): Volume (bbls):

Cement & Additives: Density (ppg) Yield (ft³/sk) Water Req.

**SUMMARY**

Preflushes:	20 bbls of SAPP	Calculated Displacement (bbl):	Stage 1	Stage 2
	12 bbls of Fresh Water	Actual Displacement (bbl):	115	
	bbls of		115	
Total Preflush/Spacer Volume (bbl):	32	Plug Bump (Y/N):	Y	Bump Pressure (psi):
Total Slurry Volume (bbl):	149	Lost Returns (Y/N):	N	(if Y, when)
Total Fluid Pumped	296			
Returns to Surface:	Cement 10 bbls			

Job Notes (fluids pumped / procedures / tools / etc.):

Pumped 20 bbls of SAPP followed by 10 bbls Fresh water, Batch Weighed and Pumped 250 sks (97) bbls of Lead CMT @ 11.8 #, Weighed and Pumped 150 sks (52) bbls of Tail CMT. Top of Tail CMT Calculated @ 939 FT. Displaced 115 bbls of H2O Bumped Plug @ Calculated Displacement With 10 bbls of Good CMT to Surface. Floats Held and got .5 bbls back when checked Floats.

Customer Representative Signature: \_\_\_\_\_

Thank You For Using  
NextTier Completion Solutions

## Cement Job Log



Customer:	CUB CREEK ENERGY LLC	Date:	2-Sep-20	Serv. Supervisor:	Anthony Staples		
Cust. Rep.:	Trenton Rico	Ticket #:	BCO-2009-0006	Serv. Center	Brighton - 3021		
Well Name:	KNIGHT 10	API Well #:	512347904	County:	WELD (CO)	State:	COLORADO
Well Type:	Oil	Rig:	Ikona 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)
Spacer - 20 bbl Fresh Water w/Dust Flush	+15.0 PPB NSP-890				0%	(0.01)	(1.80)	20.00	
10 BBLS WATER SPACER					0%	-	-	10.00	
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		210	11.8	10%	2.60	15.55	97.00	78
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		150	13	10%	1.93	10.53	52.00	38
Displacement - To be Calculated on Location					0%	-	-	115.00	
					0%	-	-		
					0%	-	-		
					0%	-	-		
					0%	-	-		

Displacement Chemicals:	
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OPEN HOLE DATA				TUBULAR DATA									
13.5 in. O.H. 0 to 1,500 ft				9.625 in. 36#, ( 0 to 1,500 ft)			SIZE WEIGHT	THRD	DEPTH	GRADE	ID	BURST	COLLAPSE
									(ft)		(in)	(psi)	(psi)
Mix Cemt. Temperature °F	Lead Temp.	Middle Temp.	Tail Temp.		9.625		1515	J55	8.921	3520	2020		
PREVIOUS CASING DATA				PERFORATED INTERVAL DATA					CASING EQUIPMENT DEPTHS				
				TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP		
								23	1492				
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	115 bbl	H2O	8.3 ppg	305	615	1000					400	
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	615.00	Y	-	10.00	1	Yes	830.00	No		No			

Comments/Special Customer Instructions:

						Anthony Staples		2-Sep-20
						Service Supervisor		Date



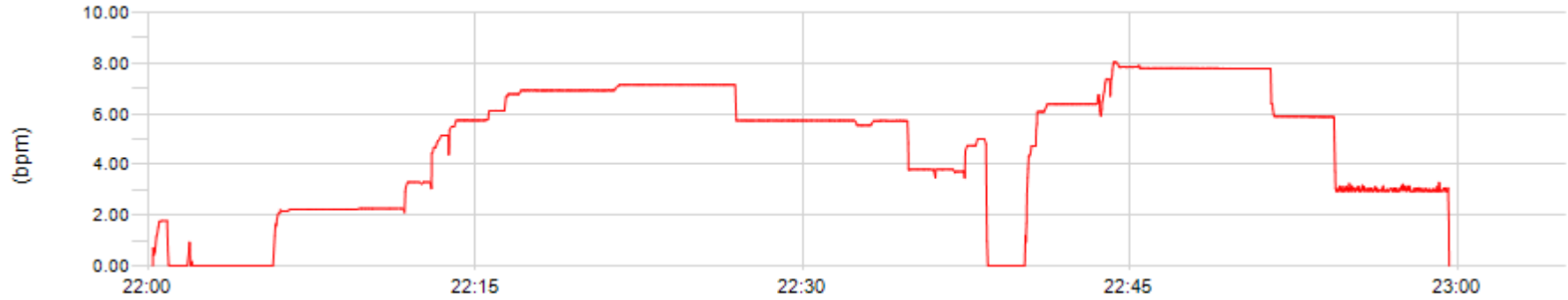


Client Cub Creek  
Ticket No. 2009-0006  
Location 40.19763/105.04197  
Comments

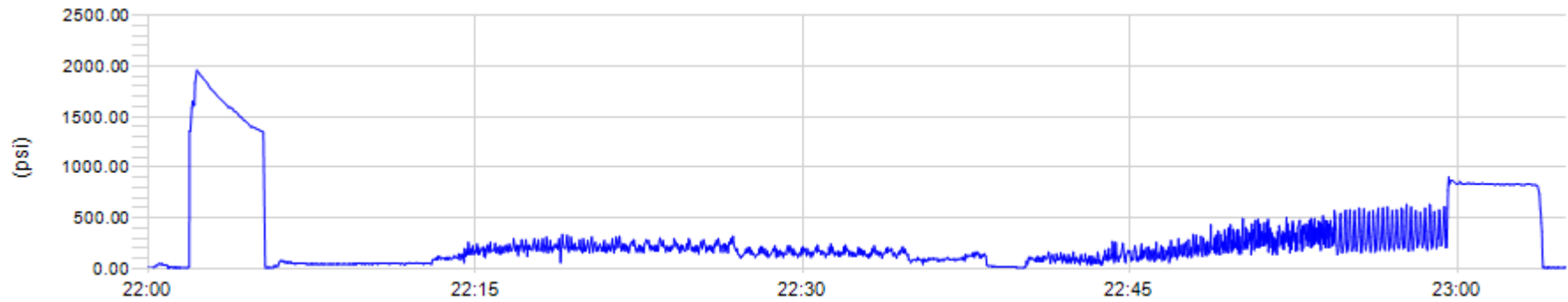
Client Rep Sam  
Well Name Knight 10  
Job Type Surface Casing

Supervisor AJ Staples  
Unit No. 445084  
Service District Brighton CO  
Job Date 09/02/2020

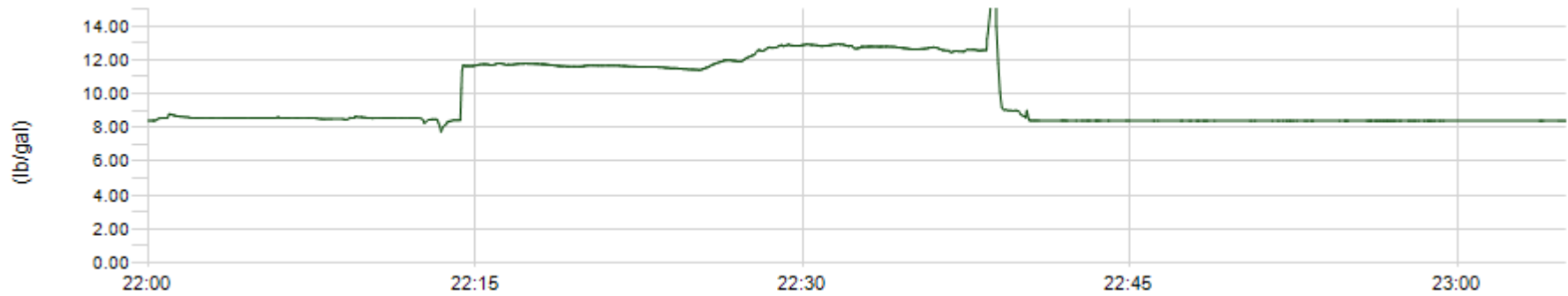
Unit 445084 Rate Total

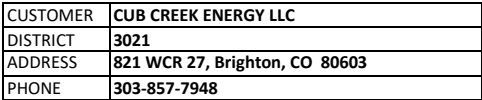


Unit 445084 Pump Pressure



Unit 445084 Density





<b>TICKET</b>	BCO-2009-0006
<b>DATE</b>	9/2/2020
<b>CREW INFORMATION</b>	
<b>SUPERVISOR</b>	Anthony Staples
<b>PUMP UNIT</b>	44-5084
<b>NUMBERS</b>	
<b>ARRIVAL (D&amp;T)</b>	9/1/20 7:50 PM
<b>DEPARTURE (D&amp;T)</b>	9/2/20 12:45 AM

## 226-JLPjob 1

## Materials & Products

Customer Stamp

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

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

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