NexTier Job Summary

Ticket Number	Ticket Date
TN# BCO-2009-0002	9/1/2020

COUNTY	COMPANY	API Number
WELD (CO)	CUB CREEK ENERGY LLC	512347905
WELL NAME	**RIG**	**JOB TYPE**
KNIGHT 12	Ikon 12	CM-SURFACE CASING
SURFACE WELL LOCATION	**CJES Field Supervisor**	**CUSTOMER REP**
40.19759 105.04196	Cody Michel	Trenton Rico

EMPLOYEES

Jake Prock	*Andrew L*	
Aj Staples		
Jimmy Payne		

WELL PROFILE

Max Treating Pressure (psi):	1000	Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	

Open Hole

	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
1	13.5	0	1539	0	1539
2					

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		0	1513	0	1513

CEMENT DATA

Stage 1: Type: **Lead**

From Depth (ft): 0 To Depth (ft): 986

Volume (sacks): 210 Volume (bbls): 97.24

Cement & Additives:	Density (ppg)	Yield (ft^3/sk)	Water Req.
100% NCM-922+2% NAC 101+2% NAC 102+ 2%NAC 110+0.4% NFP-701+ 0.25pps	11.8	2.60	15.55

Stage 2: Type: **Tail**

From Depth (ft): 986 To Depth (ft): 1513

Volume (sacks): 164 Volume (bbls): 56.4

Cement & Additives:	Density (ppg)	Yield (ft^3/sk)	Water Req.
100% NCM-922+2% NAC 101+2% NAC 102+ 2%NAC 110+0.4% NFP-701+ 0.25pps	13	1.93	10.53

Stage 3: Type: **Top Off**

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

Volume (sacks): Volume (bbls):

Cement & Additives:	Density (ppg)	Yield (ft^3/sk)	Water Req.

Stage 4: Type:

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

Volume (sacks): Volume (bbls):

Cement & Additives:	Density (ppg)	Yield (ft^3/sk)	Water Req.

SUMMARY

				Stage 1	Stage 2
Preflushes:	20 bbls of	SAPP	Calculated Displacement (bbl):	115.4	
	20 bbls of	Fresh Water	Actual Displacement (bbl):	116.4	
	bbls of				

TotalPreflush/Spacer Volume (bbl): 40 Plug Bump (Y/N): Yes Bump Pressure (psi): 950

Total Slurry Volume (bbl): 153.64 Lost Returns (Y/N): No (if Y, when)

Total Fluid Pumped 310.04

Returns to Surface: Cement 11.4 bbls

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

Pumped 20 bbl of SAPP then 20 bbl of fresh water followed by 210 sks (97.24 bbl) of 11.8 ppg lead cement followed by 164 sks (56.4 bbl) of 13 ppg tail cement. Displaced with 116.4 bbl of fresh water to bumped the plug. Got cement to surface at 105 bbl away Left 0 psi on casing. Job pumped per customer request

Customer Representative Signature:

Thank You For Using NexTier Completion Solutions

Cement Job Log

NEXTIER

Customer:	CUB CREEK ENERGY LLC	Date:	1-Sep-20	Serv. Supervisor:	Cody Michel		
Cust. Rep.:	Trenton Rico	Ticket #:	BCO-2009-0002	Serv. Center	Brighton - 3021		
Well Name:	KNIGHT 12	API Well #:	512347905	County:	WELD (CO)	State:	COLORADO
Well Type:	Oil	Rig:	Ikon 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	
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	210	11.8	10%	2.60	15.55	97.41	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	164	13	10%	1.93	10.53	56.49	41
Displacement - To be Calculated on Loca				0%	-	-	112.72	
				0%	-	-		
				0%	-	-		
				0%	-	-		
				0%	-	-		

Displacement Chemicals:

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 (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
Mix Cemt. Temperature °F	Lead Tmp.	Middle Temp.	Tail Temp.	9.625" 36 ppf		1513		8.921		

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)		
Spud Mud	8.5 ppg	116.4 bbl	Water	8.3 ppg			1000		800

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)
		Y	-	11.40	-	Yes	950.00		-		

Comments/Special Customer Instructions:

Cody Michel — Service Supervisor

1-Sep-20 — Date

Cement Job Log

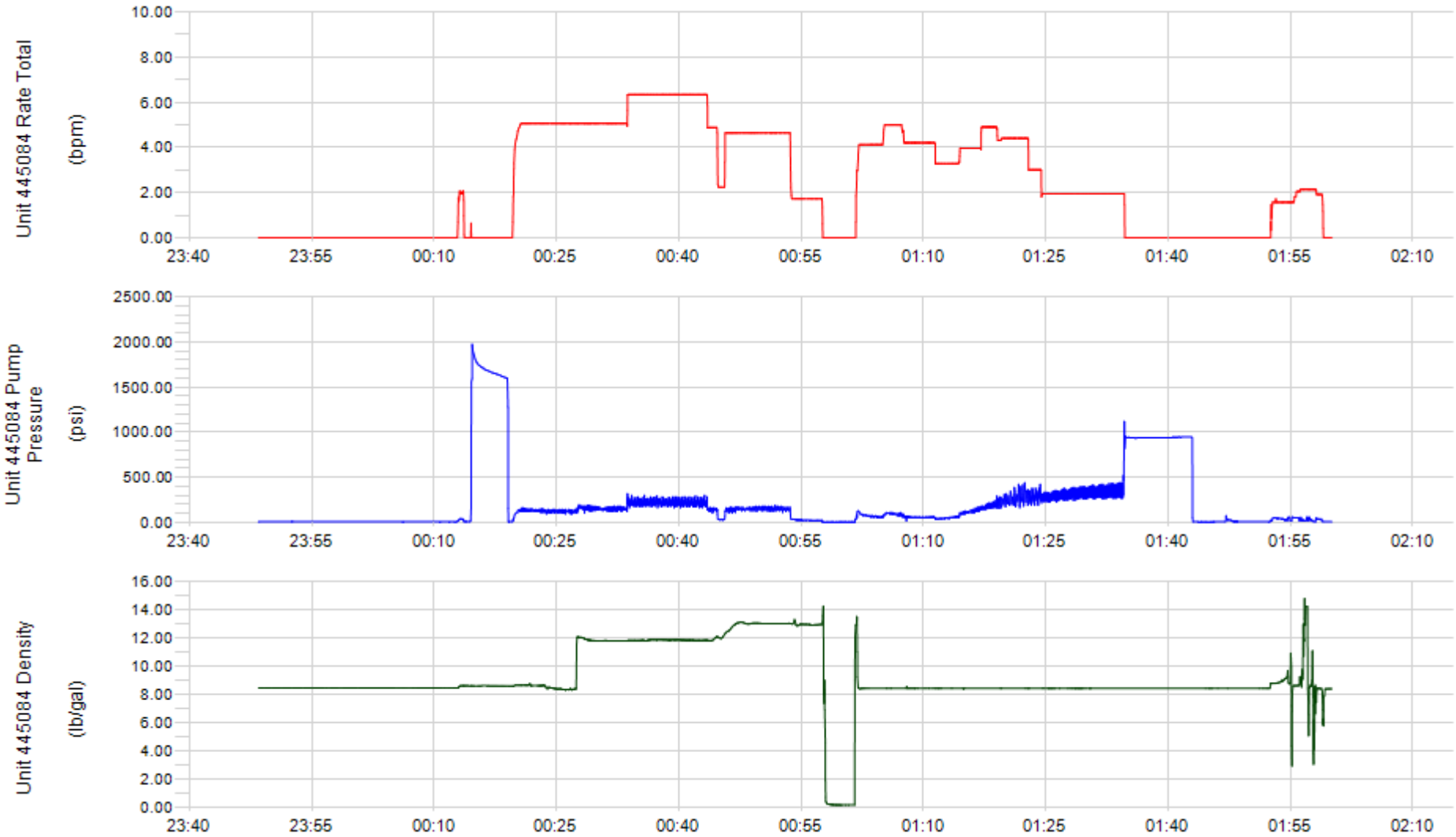
NEXTIER

Customer:	CUB CREEK ENERGY LLC			**Date:**	1-Sep-20	**Serv. Supervisor:**	Cody Michel
Cust. Rep.:	Trenton Rico			**Ticket #:**	BCO-2009-0002	**Serv. Center:**	Brighton - 3021
Well Name:	KNIGHT 12	**RTS Date:**	01-Sep-2020	**API Well #:**	**512347905**	**County:** **WELD (CO)**	**State:** COLORA
Well Type:	Oil	**RTS Time:**	8:00 PM	**Rig:**	**Ikon 12**	**Type of Job:**	**CM-SURFACE CASING**

	Date	Time		Date	Time		Date	Time
Left Yard:	01-Sep-20	7:00 PM	**Left Loc.:**	02-Sep-20	**2:45 AM**	**Start Pump:**	02-Sep-20	12:08 AM
Arrived Loc.:	01-Sep-20	**8:00 PM**	**Returned Yd.:**	02-Sep-20	3:45 AM	**End Pump:**	02-Sep-20	1:45 AM

TIME Note: Red boxes indicate bad values!	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Num. Stage #	**Stage Details**
7:00 PM								Left Yard or Current Location
8:00 PM							1	ARRIVE ON LOCATION
8:00 PM							1	Tailgate Meeting
8:05 PM							1	Spot Trucks
8:30 PM							1	Rig In
9:30 PM							1	Wait on rig to run in hole casing
11:15 PM							1	Safety Meeting
12:08 AM					2.0 bbl	2.0 bbl	1	Fill Lines and Pressure test 2000 psi
12:14 AM	5	115			20.0 bbl	22.0 bbl	1	Pump 20 bbl of SAPP
12:18 AM	5	115			20.0 bbl	42.0 bbl	1	Pump 20 bbl of fresh water spacer
12:22 AM	5.5	180			97.2 bbl	139.2 bbl	1	Mix and Pump 210 sks (97.24bbl) of 11.8 ppg cement
12:40 AM	5	150			56.4 bbl	195.6 bbl	1	Mix and Pump 164 sks (56.4 bbl) of 13 ppg cement
12:56 AM	4	300			105.0 bbl	300.6 bbl	1	Displace 105 bbl to cement to surface
1:20 AM	5	950			11.4 bbl	312.0 bbl	1	Displace a total of 116.4 bbl to bump plug
1:45 AM							1	Shut down and bleed off well
2:00 AM							1	Wash up and rig down
2:30 AM							1	Leave location

Client	Cub Creek	Client Rep	Trenton Rico	Supervisor	Cody Michel
Ticket No.	20090002	Well Name	Knight 12	Unit No.	445084
Location		Job Type	Surface Casing	Service District	Brighton
Comments	See job log			Job Date	09/01/2020



NEXTIER

CUSTOMER	**CUB CREEK ENERGY LLC**
DISTRICT	**3021**
ADDRESS	**821 WCR 27, Brighton, CO 80603**
PHONE	**303-857-7948**

AFE #		**PO:**	
LEASE NAME / NUMBER		**API WELL NUMBER**	
KNIGHT 12		512347905	
SECTION	**TOWNSHIP**	**RANGE**	**COUNTY, STATE**
			WELD (CO), COLORADO
WELL PERMIT NUMBER			
JOB TYPE		CM-SURFACE CASING	
Vehicle Type		**Single**	

TICKET	BCO-2009-0002
DATE	9/1/2020
CREW INFORMATION	
SUPERVISOR	Cody Michel
PUMP UNIT NUMBERS	44-5084
ARRIVAL (D&T)	9/1/20 8:00 PM
DEPARTURE (D&T)	9/2/20 2:45 AM

b 1-complete

Service & Equipment Charges

Price Code	Description	Unit	Quantity	Price	Gross Amount	Discount	Net Amount
50001303	BULK CEMENT DELIVERY (PER TON)	TON MILE	456	$ 2.95	$ 1,345.20	69.00%	$ 417.01
50001312	Bulk Blending Service	FT3	408	$ 3.27	$ 1,334.16	69.00%	$ 413.59
50001349	AccuDat Recording System	JOB	1	$ 1,437.48	$ 1,437.48	69.00%	$ 445.62
50001296	MILEAGE; DOT UNITS	MILE	50	$ 7.32	$ 366.00	69.00%	$ 113.46
50001297	MILEAGE; NON-DOT UNITS	MILE	50	$ 4.26	$ 213.00	69.00%	$ 66.03
50001466	PUMP CHARGE 1000'-2000' (4 HRS)	4-HRS	1	$ 3,070.98	$ 3,070.98	69.00%	$ 952.00
				$ -	$ -		
				$ -	$ -		
				$ -	$ -		
				$ -	$ -		
				$ -	$ -		
				Subtotal	$ 7,766.82		$ 2,407.71

Materials & Products 12

Price Code	Description	Unit	Quantity	Price	Gross Amount	Discount	Net Amount
10004393	NCM-922 - CEMENT PORTLAND TYPE III NCM-922	SK	374	$ 37.70	$ 14,099.80	69.00%	$ 4,370.94
10004389	NSP-890 - ADDITIVE DUST FLUSH NSP-890	LB	300	$ 13.82	$ 4,146.00	82.00%	$ 746.28
10004416	NAC-101 - ADDITIVE GYPSUM NAC-101	LB	703	$ 1.76	$ 1,237.28	69.00%	$ 383.56
10004766	NAC-102 - ADDITIVE ANHY SODIUM METASILICATE NAC-102	LB	703	$ 3.39	$ 2,383.17	69.00%	$ 738.78
10004356	NAC-110 - Calcium Chloride NAC-110	LB	703	$ 1.22	$ 857.66	69.00%	$ 265.87
10004974	NFP-701 - ADDITIVE ANTI-FOAM SOLID NFP-701	LB	141	$ 13.60	$ 1,917.60	69.00%	$ 594.46
10004426	NLM-600 - ADDITIVE LCM FLAKE NLM-600	LB	95	$ 4.20	$ 399.00	69.00%	$ 123.69
				$ -	$ -		
				$ -	$ -		
				$ -	$ -		
				$ -	$ -		
				$ -	$ -		
				Subtotal	$ 25,040.51		$ 7,223.58
				Fuel Surcharge		0%	$ -
				Grand Total	$ 32,807.33		**$ 9,631.29**

Customer Stamp

Customer Name Printed _____

Customer Signature _____

Date Signed _____