



# Job Summary

Ticket Number	Ticket Date
TN# <b>BCO-2108-0017</b>	<b>8/9/2021</b>

COUNTY	COMPANY	API Number
<b>WELD (CO)</b>	<b>BONANZA CREEK ENERGY</b>	<b>05-123-50450-00</b>
WELL NAME	RIG	JOB TYPE
<b>ANTELOPE C12-W42-33HNB</b>	<b>Ensign 122</b>	<b>CM-SURFACE CASING</b>
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
<b>40.35602 -104.33701</b>	<b>ANTHONY STAPLES</b>	<b>Tim Joel</b>

EMPLOYEES		
JAMES MCFARLAND		
JAMES BELL-VERHEY		

<b>WELL PROFILE</b>			
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	1634	0	1634
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		0	1623.43	0	1623.43
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:** From Depth (ft): **0** To Depth (ft): **968**  
 Type: **LEAD**  
 Volume (sacks): **330** Volume (bbls): **145** **CF** **368.7**

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% NCM-922 + 2% NAC-102 + 2% NAC-101 + 2% NAC-110 + .4% NFP-701 + .25 PPS NLM-600	12	2.46	14.48

**Stage 2:** From Depth (ft): **968** To Depth (ft): **1623**  
 Type: **TAIL**  
 Volume (sacks): **230** Volume (bbls): **60** **CF** **241.8**

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% NCM-922 + 1% NAC-110 + .4% NFP-701 + .25 PPS NLM-600	14.2	1.47	7.31

**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:	<b>20</b> bbls of <b>Dye</b>	Calculated Displacement (bbl):	<b>122</b>	<b>Stage 1</b>	<b>Stage 2</b>
	<b>205</b> bbls of <b></b>	Actual Displacement (bbl):	<b>122</b>		
Total Preflush/Spacer Volume (bbl):	<b>20</b>	Plug Bump (Y/N):	<b>Y</b>	Bump Pressure (psi):	<b>903</b>
Total Slurry Volume (bbl):	<b>205</b>	Lost Returns (Y/N):	<b>N</b>	(if Y, when)	
Total Fluid Pumped	<b>347</b>				
Returns to Surface:	<b>44</b> bbls				

Job Notes (fluids pumped / procedures / tools / etc.): **Pumped 20 bbls DYE Spacer, followed by 330 sks (145) bbls of 12# Lead Cement, followed by 230 sks (60) bbls of 14.2# Tail Cement and Displaced with 122 bbls. Top of Tail is @ 968 ft and got 44 bbls of Cement to Surface.**

Customer Representative Signature: \_\_\_\_\_ **Thank You For Using NextTier Completion Solutions**

Cement Job Log



NexTier Completion Solutions  
 3990 Rogerdale Rd., Houston, TX 77042  
 (713)325-6000

Customer:	BONANZA CREEK ENERGY	Date:	9-Aug-21	Serv. Supervisor:	ANTHONY STAPLES
Cust. Rep.:	Tim Joel	Ticket #:	BCO-2108-0017	Serv. Center:	Brighton - 3021
Well Name:	ANTELOPE C12-W42-33HNB	API Well #:	05-123-50450-00	County:	WELD (CO)
Well Type:	Oil	Rig:	Ensign 122	State:	COLORADO
				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)	Fluid Volume (cuft)	Mix Water (bbls)
0				0%	-	-	-	-	-
Spacer - 20 bbl Fresh Water				0%	-	-	-	-	-
Lead	100 % NCM-922 +2.0 % NAC-102+2.0 % NAC-101+2.0 % NAC-110+0.4 % NFP-701+0.25 PPS NLM-600	330	12	50%	2.46	14.48	144.72	812.58	114
Tail	100 % NCM-922 +1.0 % NAC-110+0.4 % NFP-701+0.25 PPS NLM-600	230	14.2	30%	1.47	7.31	60.37	339.00	40
Displacement - To be Calculated on Location				0%	-	-	120.45	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
				0%	-	-	-	-	-
Displacement Chemicals:									

OPEN HOLE DATA				TUBULAR DATA									
13.5 in. O.H. 0 to 1,600 ft				9.625 in. 36#, ( 0 to 1,600 ft)			SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
Ambient Tmp.	Bulk Tmp.	Slurry 1 Tmp.	Slurry 2 Tmp.	Slurry 3 Tmp.	Slurry 4 Tmp.	9.625		1623.43		8.921	3520	2020	
70.0 °F		78.0 °F	79.0 °F										
PREVIOUS CASING DATA				PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS					
				TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP		
								41.5	1581				
WELL FLUID			DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	Mix H2O Chlorides (ppm)	Mix H2O pH	Mix H2O Temp	WATER ON LOC (bbl)	
TYPE	DENSITY	VOLUME	TYPE	DENSITY									
H2O	8.4 ppg	122 bbl	H2O	8.3 ppg	372			1000	30	7	67.0 °F	500	
Bumped Plug	Final Differential (psi)	Floater 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	420.00	Y	-	44.00	-	Yes	903.00	No		No			

Comments/Additional Details:

	<b>ANTHONY STAPLES</b>	9-Aug-21
	Service Supervisor	Date

Cement Job Log

NEXTier									
<b>Customer:</b>	BONANZA CREEK ENERGY			<b>Date:</b>	9-Aug-21	<b>Serv. Supervisor:</b>	ANTHONY STAPLES		
<b>Cust. Rep.:</b>	Tim Joel			<b>Ticket #:</b>	BCO-2108-0017	<b>Serv. Center:</b>	Brighton - 3021		
<b>Well Name:</b>	ANTELOPE C12-W42-33HN	<b>RTS Date:</b>	9-Aug-21	<b>API Well #:</b>	05-123-50450-00	<b>County:</b>	WELD (CO)	<b>State:</b>	COLORADO
<b>Well Type:</b>	Oil	<b>RTS Time:</b>	8:45 AM	<b>Rig:</b>	Ensign 122	<b>Type of Job:</b>	CM-SURFACE CASING		
<b>Left Yard:</b>	Date: 09-Aug-21	Time: 6:45 AM	<b>Left Loc.:</b>	Date: 09-Aug-21	Time: 12:30 PM	<b>Start Pump:</b>	Date: 09-Aug-21	Time: 9:53 AM	
<b>Arrived Loc.:</b>	Date: 09-Aug-21	Time: 8:45 AM	<b>Returned Yd.:</b>	Date: 09-Aug-21	Time: 2:30 PM	<b>End Pump:</b>	Date: 09-Aug-21	Time: 11:17 AM	
TIME <small>Note: Red boxes indicate bad values!</small>	Rate	Csg. Press.	Tdg. Press.	Ann. Press.	Stg. Vol.	Cum. Vol.	Stage Num.	Stage Details	
	(bbl/min)	(psi)	(psi)	(psi)	(bbl)	(bbl)	Stage #		
6:45 AM								Left Yard or Current Location	
8:45 AM							1	ARRIVE ON LOCATION	
8:45 AM							1	SPOT EQUIPMENT	
8:55 AM							1	PRE-RIG UP SAFETY MEETING	
9:00 AM							1	RIG UP	
9:36 AM							1	PRE-JOB SAFETY MEETING	
9:53 AM	3	148			2.0 bbl	2.0 bbl	1	LOAD LINES	
9:54 AM		2795					1	PRESSURE TEST	
9:57 AM	5	224			18.0 bbl	20.0 bbl	1	DYE SPACER	
10:00 AM	6	280			145.0 bbl	165.0 bbl	1	BATCH, WEIGH, PUMP 12# LEAD CEMENT	
10:24 AM	4.8	312			60.0 bbl	225.0 bbl	1	14.2# TAIL CEMENT.. TOP OF TAIL @ 968 FT	
10:35 AM							1	SHUTDOWN / DROP PLUG	
10:40 AM	5.5	182			55.0 bbl	280.0 bbl	1	DISPLACEMENT	
10:50 AM	5.5	434			23.0 bbl	303.0 bbl	1	DYE TO SURFACE	
10:55 AM	5.5	577			34.0 bbl	337.0 bbl	1	CEMENT TO SURFACE	
10:58 AM	2.0	555			10.0 bbl	347.0 bbl	1	DROP RATE	
11:14 AM		903					1	BUMP PLUG @ 122 BBLs AWAY... 44 BBLs CEMENT TO SURFACE	
11:17 AM							1	CHECK FLOATS... 1 BBL BACK	
11:23 AM							1	RIG OUT SAFETY MEETING	
11:30 AM							1	RIG OUT	
12:30 PM							1	LEAVE LOCATION	



## Field Cementing Water Analysis

Company: Bonanza Creek

Test Date: 8/9/2021

Well: Antelope C12-W42-33HNB

Ticket Number: BCO-2108-0017

Ion	Sample Volume	Titer	Factor	Concentration	Units	Limit
pH				7		6 - 8
Chlorides				30	mg/l	<500
Alkalinity				40	mg/l CaCO <sup>3</sup>	<600
Mix Water Temp				70	°F	50-80°F

Water Analysis Limits		
	Limits	Potential Impact of Excess
pH	6 - 8	Accelerate or Retard Set Time, Short & Long Term Stability Issues
Chlorides	<500	Accelerate Set Time, Higher Mixing Visc, Interfere with fluid loss chemical
Alkalinity	<600	Accelerate or Retard Set Time, Lower Compressive Strength, Higher Visc
Mix Water Temp	50-80°F	Blend will not perform as designed

NextTier Supervisor Signature: \_\_\_\_\_

Company Supervisor Signature: \_\_\_\_\_

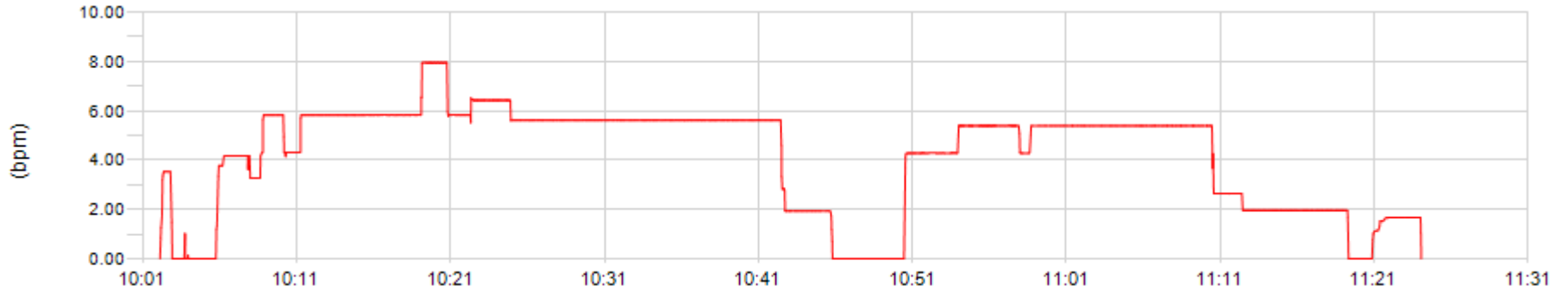


Client Bonanza Creek  
Ticket No. 21080017  
Location  
Comments

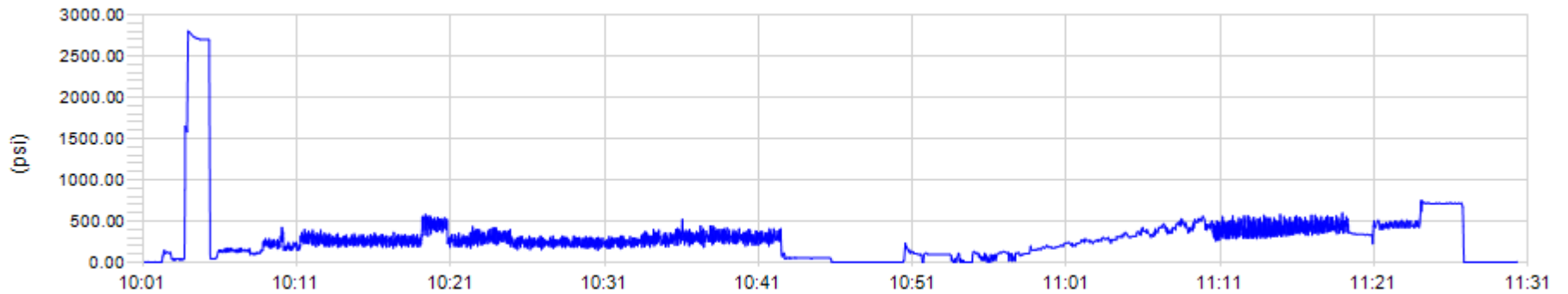
Client Rep Tim  
Well Name Antelope C12-W42-33HNB  
Job Type Surface Casing

Supervisor Anthony Staples  
Unit No. 445084  
Service District Brighton  
Job Date 08/09/2021

Unit 445084 Rate Total



Unit 445084 Pump Pressure



Unit 445084 Density

