

# Job Summary

 Ticket Number: **BCO-1904-0099** Ticket Date: **4/21/2019**  
 TN#

COUNTY	COMPANY	API Number
<b>Weld</b>	<b>BONANZA CREEK ENERGY</b>	<b>05-123-49089</b>
WELL NAME	RIG	JOB TYPE
<b>Antelope Federal O34-K31-20HNB</b>		<b>Surface Casing</b>
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
<b>40.379981 -104.346621</b>	<b>Israel Davila</b>	<b>Tim</b>

EMPLOYEES
<i>Justin Collin</i>
<i>Tony Field</i>
<i>Aaron Davidson</i>
<i>Luis Balbuena</i>

<b>WELL PROFILE</b>			
Max Treating Pressure (psi):	2500	Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	oil

## Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	13.5	0	1636	0	1636
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	1626		
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

<b>Stage 1:</b>	From Depth (ft):	0	To Depth (ft):	1004
Type: <b>Lead cement</b>	Volume (sacks):	295	Volume (bbls):	127
	Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
	Lead cement	12	2.42	14.25

<b>Stage 2:</b>	From Depth (ft):	1004	To Depth (ft):	1636
Type: <b>Tail Cement</b>	Volume (sacks):	230	Volume (bbls):	60
	Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
	Tail Cement	14.2	1.47	7.31

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

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

## SUMMARY

Preflushes:	10 bbls of	Dye	Calculated Displacement (bbl):	122.4	Stage 1	Stage 2
	bbls of		Actual Displacement (bbl):	122.4		
	bbls of					
Total Preflush/Spacer Volume (bbl):	10		Plug Bump (Y/N):	Y	Bump Pressure (psi):	840
Total Slurry Volume (bbl):	187		Lost Returns (Y/N):		(if Y, when)	
Total Fluid Pumped	197					
Returns to Surface:	Cement	40 bbls				

Job Notes (fluids pumped / procedures / tools / etc.): Pumped 10 bbls red dye. Mixed and pumped 127 bbls cement at 12 ppg (295 sacks). Mixed and pumped 60 bbls cement at 14.2 ppg (230 sacks). Displaced 122.4 bbls fresh water. Landed plug 500 psi over. Checked floats 1/2 bbl back. Pressure tested casing for 17 min at 500 psi.

**Thank You For Using**  
**CJES O-TEX Cementing**

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

## Cement Job Log



Customer:	BONANZA CREEK ENERGY		Date:	4/19/2019		Serv. Supervisor:	Israel Davila	
Cust. Rep.:	Tim		Ticket #:	BCO-1904-0099		Serv. Center	Brighton - 3021	
Lease:	Antelope Federal O34-K31-20HNB		API Well #:	05-123-49089		County:	Weld	State: CO
Well Type:	Oil		Rig:			Type of Job:	Surface Casing	
Materials Furnished by C&J ENERGY SERVICES								
Plugs		Casing Hardware		Physical Slurry Properties				
				Sacks of Cement	Fluid Dens (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)
								Fluid Volume (bbls)
								Mix Water (bbls)
Spacer - 20 bbl Fresh Water								20.00
Lead		100 % CJ922 +2.0 % CJ110+2.0 % CJ101+0.25 PPS CJ600+0.4 % CJX157011		295	12		2.42	14.25
Tail		100 % CJ922 +1.0 % CJ110+0.25 PPS CJ600+0.4 % CJX157011		230	14.2		1.47	7.31
Top Out (If Needed)		+100 % CJ914		100	15.8		1.15	5.00
Displacement Chemicals:								

Cement Job Log



Customer: <b>BONANZA CREEK ENERGY</b>				Date: <b>4/19/2019</b>				Serv. Supervisor: <b>Israel Davila</b>				
Cust. Rep.: <b>Tim</b>				Ticket #: <b>BCO-1904-0099</b>				Serv. Center: <b>Brighton - 3021</b>				
Lease: <b>Antelope Federal O34-K31-20HNB</b>				API Well #: <b>05-123-49089</b>				County: <b>Weld</b>		State: <b>CO</b>		
Well Type: <b>Oil</b>				Rig:				Type of Job: <b>Surface Casing</b>				
OPEN HOLE DATA				TUBULAR DATA								
13.5" O.H. (0' to 1636')				9.625" 36# casing (0' to 1626')		SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
PREVIOUS CASING DATA				PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS				
				TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP	
								1584				
WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)				WATER ON LOC (bbl)	
TYPE	DENSITY	VOLUME	TYPE	DENSITY								
		122.4 bbl	water	8.3 ppg							400	
Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details					
1:00 PM						0	Arrive on location					
1:10 PM						0	Tailgate meeting					
						0	Spot equipment					
						0	Rig in					
						0	JSA/Safety meeting					
						0	Fill lines					
						0	Pressure test iron to 3000psi					
						0	Pump Fresh H2O Spacer with red dye					
						0	Pump 60 bbls Lead @ 12ppg, Hydraulic issues with pump.					
						0	Shut down, rig circulated cement out					
11:34 PM						0	Replacement pump and bulk unit arrived on location					
12:17 AM	2	30			3	3	Fill lines					
12:19 AM						3	Pressure test iron to 3000psi					
12:25 AM	3.5	30			10	13	10 bbls Dye					
12:29 AM	7	200			127	140	127 bbls lead cement at 12 ppg					
12:46 AM	7.5	280			60	200	60 bbls tail cement at 14.2 ppg					
1:02 AM						200	Shut down / wash pump					
1:09 AM	7	350			122.4	322.4	Displace 122.4 bbls fresh water					
1:34 AM	3	840					land plug					
1:36 AM							check floats					
1:38 AM		500					pressure test casing					
1:55 AM							bleed off pressure					
2:05 AM							rig out					
Left Yard	4/21/19 11:30 AM			Left Loc.	4/22/19 4:00 AM		Start Pump		4/22/19 12:17 AM			
Arrived Loc.	4/21/19 1:00 PM			Returned Yd.	4/22/19 6:00 AM		End Pump		4/22/19 1:34 AM			
Bumped Plug (psi)	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	Standby Charged (hrs)	Casing Reciprocation		
Yes	840	Yes		40	0	Yes	840					
							Service Supervisor					Date



Client Bonanza Creek  
Ticket No. BCO-1904-0099  
Location 20-5N-62W  
Comments See job log for details

Client Rep Tim  
Well Name Antelope Federal 034-K31-20HNB  
Job Type Surface

Supervisor Tony Yates  
Unit No. 445528  
Service District Brighton CO  
Job Date 04/22/2019

