

C&J ENERGY SERVICES O-TEX CEMENTING		Job Summary		Ticket Number TN# BCO-1811-0093	Ticket Date 11/13/2018
COUNTY	COMPANY		API Number		
Weld	Bison Oil & Gas		05-123-09375		
WELL NAME	RIG	JOB TYPE			
Butler-Federal 1-20	Ensign 318	Plug to Abandon			
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP			
40.642303 -104.122834	Austin Klosterman	Dave Donoho			
EMPLOYEES					
James McFarland					
Joel Apodaca					
WELL PROFILE					
Max Treating Pressure (psi):		2000	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)
	8 7/8"	3750'	311'		
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	8 5/8"	24#		311'	0'		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2 7/8"	6.5#		3750'	0'		
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):	3750'	To Depth (ft):	3450'
Type: Balanced Plug	Volume (sacks):	135	Volume (bbls):	27.6

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% Class G + 2%CaCl2 Pre-Hydrated	15.8	1.15	5.00

Stage 2:	From Depth (ft):	550'	To Depth (ft):	235'
Type: Surface Plug	Volume (sacks):	315	Volume (bbls):	64

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% Class G	15.8	1.15	5.00

Stage 3:	From Depth (ft):		To Depth (ft):	
Type:	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

			Stage 1	Stage 2	
Preflushes:	13 bbls of	Fresh Water	Calculated Displacement (bbl):	19.9	1
	18 bbls of	Fresh Water	Actual Displacement (bbl):	18.1	1
	bbls of				
Total Preflush/Spacer Volume (bbl):	31		Plug Bump (Y/N):	n/a	Bump Pressure (psi):
Total Slurry Volume (bbl):	91.6		Lost Returns (Y/N):	N	(if Y, when)
Total Fluid Pumped	141.7				
Returns to Surface:	Preflush	15 bbls			

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

1st Cement Plug - From 3750' to 3450' / Cement Coverage = 300' / 135sx @15.8ppg = 27.6bbls / Estimated TOC = 3450'
 2nd Cement Plug - From 550' to 235' / Cement Coverage = 315' / 315sx @15.8ppg = 64bbls / Estimated TOC = 235'

Customer Representative Signature:

Thank You For Using
CJES O-TEX Cementing