

**HALLIBURTON**

## Cementing Job Summary

*The Road to Excellence Starts with Safety*

Sold To #: 324725	Ship To #: 3646624	Quote #: 0022070925	Sales Order #: 0902579962							
Customer: BONANZA CREEK ENERGY		Customer Rep: TIM								
Well Name: STATE CROW VALLEY	Well #: 41-21-20XRLNB	API/UWI #: 05-123-41116-00								
Field: WATTENBERG	City (SAP): BRIGGS DALE	County/Parish: WELD	State: COLORADO							
Legal Description: NE NE-21-7N-62W-1293FNL-341FEL										
Contractor: XTREME DRLG		Rig/Platform Name/Num: XTREME 22								
Job BOM: 7522										
Well Type: HORIZONTAL OIL										
Sales Person: HALAMERICA/HX40837		Srv Supervisor: Joseph Fantasia								
<b>Job</b>										
Formation Name										
Formation Depth (MD)	Top	Bottom								
Form Type	BHST									
Job depth MD	7225ft	Job Depth TVD	6667							
Water Depth		Wk Ht Above Floor	5							
Perforation Depth (MD)	From	To								
<b>Well Data</b>										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		9.625	8.921	36			0	535	0	0
Casing		7	6.276	26		P-110	0	7225	0	0
Open Hole Section			8.75				535	7235	0	0
<b>Tools and Accessories</b>										
<b>Miscellaneous Materials</b>										
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc				
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty				
<b>Fluid Data</b>										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Mud Flush III (Powder)	Mud Flush III	20	bbl	8.35			5		
42 gal/bbl		FRESH WATER								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	Lead Cement	ECONOCER (TM) SYSTEM	585	sack	12.5	1.89	10.25	8		
10.25 Gal		FRESH WATER								

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Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	ExpandaCem	EXPANDACEM (TM) SYSTEM	240	sack	14.6	1.45	6.06	6	
6.06 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	MUD	274	bbl	8.33				
Cement Left In Pipe		Amount	42 ft		Reason			Shoe Joint	
Comment APPROX 15 BBLs CEMENT TO SURFACE									

### 1.2 Planned Pumping Schedule

Event	Pressure (psi)	Rate (bpm)	Volume (bbl)	Sacks	Density (ppg)	Yield (ft3/sk)	WR (gal/sk)
START JOB	0	0	0			NA	
FILL LINES	0	0.5	0.5		8.33		
PRESSURE TEST	4000	0.5	0.5		8.33		
MUD FLUSH SPACER	250	5	20		8.34		
LEAD CEMENT	700	8	197	585	12.5	1.89	10.25
TAIL CEMENT	400	6	62	240	14.6	1.45	6.06
DROP TOP PLUG	0	0	0		9.3		
DISPLACEMENT	1500	8	274		9.3		
SLOW RATE	1900	3	10		9.3		
BUMP PLUG	2100	0	0		9.3		
CHECK FLOATS	0		2.5		8.33		
END JOB	0	NA			NA		
MAX PRESSURE	2550	NA	NA		NA		
PRESSURE TO LAND	2000	NA	NA		NA		
MIX WATER NEEDED	197	NA	NA		NA		
SPACER TO SURFACE	NA	NA	20		NA		
CEMENT TO SURFACE	NA	NA	15		NA		