

Cementing Treatment



Start Date	10/31/2018	Field Ticket#	FT-12594-D0Q2H30202-96528
End Date	10/31/2018	Well	TRUE RANCH FEE 202-2326H
Client	CCRP Operating Inc	API#	05-123-47411
Client Field Rep.		Well Classification	
Service Sup.	Andrew Hyde	County	WELD
District	Cheyenne, WY	State/Province	CO
Type of Job	Surface	Formation	
Execution ID	EXC-12594-D0Q2H302	Rig	
Project ID	PRJ1012219		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	13.50	0.00	0.00	2,138.00	2,120.00	50.00		
Casing	8.92	9.63	36.00	2,128.00	2,120.00			

Shoe Length (ft): 46.00

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Bottom Plug Provided By		Tool Depth (ft)	2,082.72
Bottom Plug Size		Max Tubing Pressure - Rated (psi)	
Top Plug Used?	Yes	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	
Top Plug Size	9.625	Max Casing Pressure - Operated (psi)	
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	24.00	Job Pumped Through	
Centralizers Type	Bow	Top Connection Thread	LTC
Landing Collar Depth (ft)	2,083	Top Connection Size	9.625

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	5.00
Circulation Time (min)	60.00	10 min SGS	7.00
Circulation Rate (bpm)	4.00	30 min SGS	10.00

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Circulation Volume (bbls)	240.00	Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)	9.10	Gas Units	
Mud Density Out (ppg)	9.10		
PV Mud In	12		
PV Mud Out	12		
YP Mud In	8		
YP Mud Out	8		

TEMPERATURE

Ambient Temperature (°F)	39.00	Slurry Cement Temperature (°F)	
Mix Water Temperature (°F)	60.00	Flow Line Temperature (°F)	120.00

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Water	8.3337			0.00				20.0000
Lead Slurry	BJCem S100.03.1C	12.0000	2.5298	14.86	0.00	1570	460	1,150.0000	204.8000
Lead Slurry	BJCem S100.03.1C	13.0000	1.9869	10.80	1,570.00	550	215	421.0000	75.0000
Displacement Final	Water	8.3300			0.00			0.0000	160.7000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	Water	Fresh Water	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem S100.03.1C	IntegraSeal POLI	0.1300	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB

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Lead Slurry	BJCem S100.03.1C	IntegraSeal POLI	0.1300	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Displacement Final	Water	Fresh Water	100.0000	PCT

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
			Min		Max	Avg
			0.00		550.00	250.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	70.00
Calculated Displacement Volume (bbls)	160.90	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	162.00	Amount of Spacer to Surface	60.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	No	Amount Bled Back After Job	0.50
Bump Plug Pressure (psi)		Total Volume Pumped (bbls)	512.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

CEMENT PLUG

Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs			

SQUEEZE

Injection Rate (bpm)		Fluid Density (ppg)	
Injection Pressure (psi)		ISIP (psi)	
Type of Squeeze		FSIP (psi)	

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Operators Max SQ Pressure (psi)

COMMENTS

Treatment Report

Job Summary