



EMC Cement Plugs Summary

Well Name Wilson Creek 31	Field Name Wilson Creek	Lease Wilson Creek Unit	Area Rockies
Business Unit Mid-Continent	County/ Parish Rio Blanco	Global Metrics Region Lower 48	Surface UWI 0510305843

Cement Plugs

Plug, 9/18/2021 15:30

Cementing Start Date 9/18/2021 15:30	Cementing End Date 9/18/2021 16:00	Description Cement Plug	Type Plug	Vendor A Plus Well Services	Technical Result Success
Stage Number 1	Top Depth (ftKB) 5,840.0	Bottom Depth (ftKB) 6,433.0	Avg Pump Rate (bbl/min) 3	Final Pump Pressure (psi) 300.0	Depth Tagged (MD) (ftKB)
Fluid Type Lead	Class G	Density (lb/gal) 15.80	Yield (ft³/sack) 1.15	Quantity (sacks) 114	Volume Pumped (bbl) 23.3

Plug, 9/19/2021 09:15

Cementing Start Date 9/19/2021 09:15	Cementing End Date 9/19/2021 09:45	Description Cement Plug	Type Plug	Vendor A Plus Well Services	Technical Result Success
Stage Number 1	Top Depth (ftKB) 4,683.0	Bottom Depth (ftKB) 5,483.0	Avg Pump Rate (bbl/min) 3	Final Pump Pressure (psi) 300.0	Depth Tagged (MD) (ftKB) 4,695
Fluid Type Lead	Class G	Density (lb/gal) 15.80	Yield (ft³/sack) 1.15	Quantity (sacks) 154	Volume Pumped (bbl) 31.5

Squeeze, 9/20/2021 11:00

Cementing Start Date 9/20/2021 11:00	Cementing End Date 9/20/2021 11:30	Description Cement Squeeze	Type Squeeze	Vendor A Plus Well Services	Technical Result Success
Stage Number 1	Top Depth (ftKB) 3,752.0	Bottom Depth (ftKB) 4,002.0	Avg Pump Rate (bbl/min) 2	Final Pump Pressure (psi) 200.0	Depth Tagged (MD) (ftKB)
Fluid Type Lead	Class G	Density (lb/gal) 15.80	Yield (ft³/sack) 1.15	Quantity (sacks) 86	Volume Pumped (bbl) 17.6

Plug, 9/20/2021 14:30

Cementing Start Date 9/20/2021 14:30	Cementing End Date 9/20/2021 15:00	Description Cement Plug	Type Plug	Vendor A Plus Well Services	Technical Result Success
Stage Number 1	Top Depth (ftKB) 1,701.0	Bottom Depth (ftKB) 2,501.0	Avg Pump Rate (bbl/min) 2	Final Pump Pressure (psi) 200.0	Depth Tagged (MD) (ftKB) 1,696
Fluid Type Lead	Class G	Density (lb/gal) 15.80	Yield (ft³/sack) 1.15	Quantity (sacks) 154	Volume Pumped (bbl) 31.4

Squeeze, 9/21/2021 11:15

Cementing Start Date 9/21/2021 11:15	Cementing End Date 9/21/2021 11:30	Description Cement Squeeze	Type Squeeze	Vendor A Plus Well Services	Technical Result Success
Stage Number 1	Top Depth (ftKB) 921.0	Bottom Depth (ftKB) 1,096.0	Avg Pump Rate (bbl/min) 2	Final Pump Pressure (psi) 0.0	Depth Tagged (MD) (ftKB) 951
Fluid Type Lead	Class G	Density (lb/gal) 15.80	Yield (ft³/sack) 1.15	Quantity (sacks) 60	Volume Pumped (bbl) 12.3

Squeeze, 9/22/2021 09:30

Cementing Start Date 9/22/2021 09:30	Cementing End Date 9/22/2021 10:00	Description Cement Squeeze	Type Squeeze	Vendor A Plus Well Services	Technical Result Success
Stage Number 1	Top Depth (ftKB) 0.0	Bottom Depth (ftKB) 531.0	Avg Pump Rate (bbl/min) 3	Final Pump Pressure (psi) 200.0	Depth Tagged (MD) (ftKB)
Fluid Type Lead	Class G	Density (lb/gal) 15.80	Yield (ft³/sack) 1.15	Quantity (sacks) 240	Volume Pumped (bbl) 49.1

Total Sacks Pumped

Start Date	End Date	Type	Sum of Quantity (sacks)
9/18/2021 15:30	9/18/2021 16:00	Plug	114
9/19/2021 09:15	9/19/2021 09:45	Plug	154
9/20/2021 11:00	9/20/2021 11:30	Squeeze	86
9/20/2021 14:30	9/20/2021 15:00	Plug	154
9/21/2021 11:15	9/21/2021 11:30	Squeeze	60
9/22/2021 09:30	9/22/2021 10:00	Squeeze	240
Total (Sum)			808

Equipment Pressure Tests

Date	Test Type	Applied Surface Pressure (psi)	Item Tested
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Comment