



Customer: Great Western Operating Company	Rig: hurricane Cement Unit: CP11
Company Foreman: David Lang	Date: 6/12/2021
Well Name: Freeman D1	Invoice Number: CT01212
Start time: 7:00am	End Time: 11:00am

Job Log:

CP11, Drove to location, signed JSA, spot in equipment, wait on orders to pump, and rigged up, had safety meeting, RU valve, pressure test lines to 1,500 psi. Tubing 2 3/8" ph6, Casing 4 1/2 11.6#

Status: 25sx thermal 35, yield 1.52, 15.8#, 15bbl lead, max pressure 1000 psi, rate 2bbl per min, Eot 8093', TOC 7657' displace with 25.5 bbl h2o, used 2gallon defoamer, 822# of silica flour BWOC used in slurry plug, Clean out unit, rig down equipment and clean location.

EOT 8062', TOC 7465'

Service and Equipment Charges

Description	Unit	Quantity	Price	Net Amount
Restraints, high pressure iron	per job	1		
4 hour cementer charge	by 4 hours	1		
Environmental fee*	per job	1		
Pickup mileage	per mile	100		
Cement Pump and Pneumatic Bulker mileage	per mile	200		
Data Acquisition System	per job	0		
Bulk material mixing service charge	cubic foot	25		
Additional pneumatic hours (non discounted)	per hour	0		
Additional cement pump hours (non discounted)	per hour	0		
Cut and Cap fee	per request	0		
Fresh Water Transport	per hour	6		
Fresh water	per bbl.	80		

Service and Equipment Totals

Material & Products

Description	Unit	Quantity
Class G neat cement	Per sack	0
Thermal Cement (Class G with 35% silica flour)	Per sack	25
Defoamer	Per Gallon	2
Calcium Chloride (CaCl)	Per pound	0
Retarder	Per Gallon	0
SAPP	Per sack	0
Thixotropic Cement (IWS 13, IWS EXP, CaCl2, Fluid Loss)	Per sack	0

Material & Product Totals



Customer: Great Western Operating Company	Rig: hurricane Cement Unit: CP11
Company Foreman: David Lang	Date: 6/13/2021
Well Name: Freeman D1	Invoice Number: CT01213
Start time: 8:30am	End Time: 12:30pm

Job Log:

CP11, Drove to location, signed JSA, spot in equipment, wait on orders to pump, and rigged up, had safety meeting, RU valve, pressure test lines to 1,500 psi. Tubing 2 3/8" ph6, Casing 4 1/2 11.6#

Status: 50sx thermal 35, yield 1.52, 15.8#, 15bbl lead, max pressure 1000 psi, rate 2bbl per min, top perf 6940', bottom perf 7140', CICR @7048' displace with 21.2 bbl h2o, leaving 2.7 BBL of slurry on top CICR, TOC 6874', used 2gallon defoamer, 1645# of silica flour BWOC used in slurry plug, Clean out unit, rig down equipment and clean location.

Service and Equipment Charges

Description	Unit	Quantity	Price	Net Amount
Restraints, high pressure iron	per job	1		
4 hour cementer charge	by 4 hours	1		
Environmental fee*	per job	1		
Pickup mileage	per mile	100		
Cement Pump and Pneumatic Bulker mileage	per mile	200		
Data Acquisition System	per job	0		
Bulk material mixing service charge	cubic foot	50		
Additional pneumatic hours (non discounted)	per hour	0		
Additional cement pump hours (non discounted)	per hour	0		
Cut and Cap fee	per request	0		
Fresh Water Transport	per hour	6		
Fresh water	per bbl.	100		

Service and Equipment Totals
Material & Products

Description	Unit	Quantity
Class G neat cement	Per sack	0
Thermal Cement (Class G with 35% silica flour)	Per sack	50
Defoamer	Per Gallon	2
Calcium Chloride (CaCl)	Per pound	0
Retarder	Per Gallon	0
SAPP	Per sack	0
Thixotropic Cement (IWS 13, IWS EXP, CaCl2, Fluid Loss)	Per sack	0

Material & Product Totals



Customer: Great Western Operating Company	Rig: hurricane Cement Unit: CP11
Company Foreman: David Lang	Date: 6/14/2021
Well Name: Freeman D1	Invoice Number: CT01214
Start time: 9:30am	End Time: 5:30 AM

Job Log:

CP11, Drove to location, signed JSA, spot in equipment, wait on orders to pump, and rigged up, had safety meeting, RU valve, pressure test lines to 1,500 psi. Tubing 2 3/8" ph6, Casing 4 1/2 11.6#

Status: 35sx Thixotropic blend, yield 1.86, 13.5#, 20bbl lead, max pressure 1000 psi, rate 2bbl per min, top pef 4700', bottom perf 4905' ⁴⁹⁰⁰, CIRC @4805' displace with 14.7 bbl h2O, leaving 1.6 BBL of slurry on top CIRC, TOC 4699', Gypsum, Sodium Metasilicate, and Calcium Chloride used in slurry in proprietary amounts, used 1gallon defoamer, wait on rig crew, 35sx Thixotropic blend, yield 1.86, 13.5#, 15bbl lead, max pressure 500 psi, rate 2bbl per min, top pef 2200', bottom perf 2400', CIRC @2300' displace with 6.2 bbl h2O, leaving 1.6 BBL of slurry on top CIRC, TOC 2194', Gypsum, Sodium Metasilicate, and Calcium Chloride used in slurry in proprietary amounts, used 1gallon defoamer, Clean out unit, rig down equipment and clean location

Service and Equipment Charges

Description	Unit	Quantity	Price	Net Amount
Restraints, high pressure iron	per job	2		
4 hour cementer charge	by 4 hours	2		
Environmental fee*	per job	2		
Pickup mileage	per mile	100		
Cement Pump and Pneumatic Bulker mileage	per mile	250		
Data Acquisition System	per job	0		
Bulk material mixing service charge	cubic foot	70		
Additional pneumatic hours (non discounted)	per hour	0		
Additional cement pump hours (non discounted)	per hour	0		
Cut and Cap fee	per request	0		
Fresh Water Transport	per hour	8		
Fresh water	per bbl.	200		

Service and Equipment Totals

Material & Products

Description	Unit	Quantity
Class G neat cement	Per sack	0
Thermal Cement (Class G with 35% silica flour)	Per sack	0
Defoamer	Per Gallon	2
Calcium Chloride (CaCl)	Per pound	0
Retarder	Per Gallon	0
SAPP	Per sack	0
Thixotropic Cement (IWS 13, IWS EXP, CaCl2, Fluid Loss)	Per sack	70

Material & Product Totals



Customer: Great Western Operating Company	Rig: hurricane Cement Unit: CP11
Company Foreman: David Lang	Date: 6/15/2021
Well Name: Freeman D1	Invoice Number: CT02482
Start time: 7:00am	End Time: 4:00pm

Job Log:

CP7, Drove to location, signed JSA, spot in equipment, wait on orders to pump, and rigged up, had safety meeting, RU valve, pressure test lines to 1,500 psi. Tubing 2 3/8" ph6, Casing 4 1/2 11.6#

Status: 56sx G cement 2% CACL BWOW, yield 1.15, 15.8 #, 10 bbl h2o lead, rate 2bbl a min, max psi 500, EOT 1395', TOC 650', displaced 1.5 bbl h2o, cleaned out unit, WOC, 70sx G cement 2% CACL BWOW, yield 1.15, 15.8 #, 10bbl h2o lead, rate 2 bbl a min, max psi 250, EOT 804', TOC surface, Close blinds and squeeze 42sx G Cement 2% CACL BWOW, 8.6 bbls of slurry, max psi 800, Got 1/2 bbl back from squeeze, use 1 gallon defoamer each plug, cleaned out unit, rig down equipment, clean location, travel home.

Service and Equipment Charges

Description	Unit	Quantity	Price	Net Amount
Restraints, high pressure iron	per job	2		
4 hour cementer charge	by 4 hours	2		
Environmental fee*	per job	2		
Pickup mileage	per mile	100		
Cement Pump and Pneumatic Bulker mileage	per mile	200		
Data Acquisition System	per job	0		
Bulk material mixing service charge	cubic foot	168		
Additional pneumatic hours (non discounted)	per hour	1		
Additional cement pump hours (non discounted)	per hour	1		
Cut and Cap fee	per request	0		
Fresh Water Transport	per hour	10		
Fresh water	per bbl.	100		

Service and Equipment Totals

Material & Products

Description	Unit	Quantity
Class G neat cement	Per sack	168
Thermal Cement (Class G with 35% silica flour)	Per sack	0
Defoamer	Per Gallon	2
Calcium Chloride (CaCl)	Per pound	0
Retarder	Per Gallon	0
SAPP	Per sack	0
Thixotropic Cement (IWS 13, IWS EXP, CaCl2, Fluid Loss)	Per sack	0

Material & Product Totals

EOT
873'



Customer: Great Western Operating Company	Rig: hurricane Cement Unit: CP11
Company Foreman: David Lang	Date: 6/17/2021
Well Name: Freeman D1	Invoice Number: CT02483
Start time: 12:00pm	End Time: 5:00pm

Job Log:

CP7, Drove to location, signed JSA, spot in equipment, wait on orders to pump, and rigged up, had safety meeting, RU valve, pressure test lines to 1,500 psi. Tubing 2 3/8" ph6, Casing 4 1/2 11.6#
 Status: 35sx G cement 3% CACL BWOW, 3 bbl lead, rate 1. bbl a min, max pressure 1200 psi, CICR @ 311', EOT 311', TOC 280', Squeezed 6.1 bbl of slurry through CICR, stung out, displaced 1/2 a bbl, leaving 1/2 bbl of slurry on top, wait on rig crew, 25sx G cement 3% CACL BWOW, 2 bbl lead, EOT 280', TOC surface, 5 sx top off, use 1 gallon defoamer each plug, cleaned out unit, rig down equipment, clean location, travel home.

Service and Equipment Charges

Description	Unit	Quantity	Price	Net Amount
Restraints, high pressure iron	per job	1		
4 hour cementer charge	by 4 hours	1		
Environmental fee*	per job	1		
Pickup mileage	per mile	100		
Cement Pump and Pneumatic Bulker mileage	per mile	200		
Data Acquisition System	per job	0		
Bulk material mixing service charge	cubic foot	65		
Additional pneumatic hours (non discounted)	per hour	1		
Additional cement pump hours (non discounted)	per hour	1		
Cut and Cap fee	per request	0		
Fresh Water Transport	per hour	7		
Fresh water	per bbl.	80		

Service and Equipment Totals
Material & Products

Description	Unit	Quantity
Class G neat cement	Per sack	65
Thermal Cement (Class G with 35% silica flour)	Per sack	0
Defoamer	Per Gallon	1
Calcium Chloride (CaCl)	Per pound	100
Retarder	Per Gallon	0
SAPP	Per sack	0
Thixotropic Cement (IWS 13, IWS EXP, CaCl2, Fluid Loss)	Per sack	0

Material & Product Totals