

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 361672	Ship To #: 2804655	Quote #:	Sales Order #: 7607130
Customer: EAST CHEYENNE GAS STORAGE	Customer Rep: Bartholomew, Earl		
Well Name: Michaels	Well #: 1	API/UWI #:	
Field: LEWIS CREEK	City (SAP): STERLING	County/Parish: Logan	State: Colorado
Contractor: Key	Rig/Platform Name/Num: 60		
Job Purpose: Cement Multiple Stages			
Well Type: Development Well	Job Type: Cement Multiple Stages		
Sales Person: FLING, MATTHEW	Srvc Supervisor: SIMS, DENNIS	MBU ID Emp #:	158880

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHAVEZ, JEROME Christophe		458298	GREEN, JOSEPH D		477855	SIMS, DENNIS A		158880
SIPNEFSKI, ROBERT Anthony		419391	VIGIL, DANIEL Paul		471489			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10025030	130 mile	10879720C	130 mile	10804557C	130 mile	10948695	130 mile
10877079C	130 mile	11019275C	130 mile	11488570C	130 mile	11515108C	130 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours

TOTAL

Total is the sum of each column separately

Job	Job Times
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Formation Name	Date	Time	Time Zone
Formation Depth (MD) Top	01 - Sep - 2010	02:00	MST
Bottom	01 - Sep - 2010	06:00	MST
Form Type	01 - Sep - 2010	10:00	MST
Job depth MD	01 - Sep - 2010	16:00	MST
Water Depth	01 - Sep - 2010	17:00	MST
Perforation Depth (MD) From	01 - Sep - 2010		
To			

Well Data

Description	New / Used	Max pressure psig	Size In	ID In	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Multiple Stage Cementer	Unknown							4800.	4800.		
Open Hole				9.6				200.	5790.		
Production Casing	New		5.5	4.974	15.				5350.		
Surface Casing	Unknown		8.625	8.097	24.				200.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,FLOAT,5 1/2 8RD,2 3/4 SUPER SEAL	1	EA		
CLR,FLT,5-1/2 8RD,14-23PPF,2-3/4	1	EA		
CTRZR ASSY,5 1/2 CSG X 7 7/8 HOLE,HINGED	30	EA		
CLAMP - LIMIT - 5-1/2 - HINGED -	2	EA		
KIT,HALL WELD-A	2	EA		
CEMENTER - MULT STAGE - 5-1/2 8RD	1	EA		
PLUG SET - FREE FALL - 5-1/2 8RD &	1	EA		

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Tools and Accessories													
Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			


Miscellaneous Materials									
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%		
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty			

Fluid Data									
Stage/Plug # 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density lbm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	water spacer		20.00	bbl	8.3	.0	.0	5.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	20.00	bbl	8.4	.0	.0	.0	
3	Water Spacer		20.00	bbl	8.34	.0	.0	.0	
4	Halcem 15.8#	HALCEM (TM) SYSTEM (452988)	200.0	sacks	15.8	1.15	4.94		4.94
4.94 Gal			FRESH WATER						
5	water displacement		127.00	bbl	8.3			6.0	

Stage/Plug # 2									
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density uom	Yield uom	Mix Fluid uom	Rate uom	Total Mix Fluid uom
1	Water Spacer		20.00	bbl	8.34	.0	.0	.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	20.00	bbl	8.4	.0	.0	.0	
3	water spacer		20.00	bbl	8.3	.0	.0	.0	
4	Econocem 12#	ECONOCCEM (TM) SYSTEM (452992)	941.0	sacks	12.	2.12	12.03		12.03
12.03 Gal			FRESH WATER						
5	water displacement		114.00	bbl	8.3			7.0	

Calculated Values			Pressures			Volumes		
Displacement		Shut In: Instant		Lost Returns		Cement Slurry		Pad
Top Of Cement		5 Min		Cement Returns		Actual Displacement		Treatment
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job

Rates									
Circulating		Mixing		Displacement		Avg. Job			
Cement Left In Pipe	Amount	0 ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		

The Information Stated Herein Is Correct	Customer Representative Signature 
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Cementing Job Log

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Well Name: Michaels	Well #: 1	API/UWI #:	
Field: LEWIS CREEK	City (SAP): STERLING	County/Parish: Logan	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: Key		Rig/Platform Name/Num: 60	
Job Purpose: Cement Multiple Stages		Ticket Amount:	
Well Type: Development Well		Job Type: Cement Multiple Stages	
Sales Person: FLING, MATTHEW		Srv Supervisor: SIMS, DENNIS	
		MBU ID Emp #: 158880	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	09/01/2010 06:00							
Casing on Bottom	09/01/2010 09:20							
Safety Meeting - Pre Rig-Up	09/01/2010 09:45							
Rig-Up Completed	09/01/2010 10:11							
Pre-Job Safety Meeting	09/01/2010 11:00							
Start Job	09/01/2010 11:05		5					
Test Lines	09/01/2010 11:06						3000.0	
Pump Spacer 1	09/01/2010 11:11		6	20			200.0	water
Pump Spacer 2	09/01/2010 11:15		5	20			250.0	mud flush
Pump Spacer 1	09/01/2010 11:20		5	20			300.0	water
Pump Cement	09/01/2010 11:25		7	41			375.0	200 sks HALCEM 15.8#
Drop Top Plug	09/01/2010 11:41						.0	drop plug and wash lines
Pump Displacement	09/01/2010 11:45		6	40			70.0	start displacement
Pump Displacement	09/01/2010 11:49		7	50			80.0	increase rate
Bump Plug	09/01/2010 12:11			127			1600.0	check floats (holding)
Open Multiple Stage Cementer	09/01/2010 12:11							
Start Job	09/01/2010 15:40							

Sold To #: 361672

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Quote #:

Sales Order #:

7607130

SUMMIT Version: 7.20.130

Wednesday, September 01, 2010 05:20:00

HALLIBURTON**Cementing Job Log**

Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Test Lines	09/01/2010 15:41						3000. 0	
Pump Spacer 1	09/01/2010 15:43		5	20			220.0	water spacer
Pump Spacer 2	09/01/2010 15:51		5	20			250.0	mud flush
Pump Spacer 1	09/01/2010 15:53		5	20			300.0	water spacer
Pump Cement	09/01/2010 15:59		8	350			350.0	941 sks ECONOCEM 12 #
Drop Top Plug	09/01/2010 16:44						.0	
Pump Displacement	09/01/2010 16:46		8	115			220.0	
Bump Plug	09/01/2010 17:01						775.0	pressure to 1800 psi to close DV tool
Check Floats	09/01/2010 17:05						.0	
End Job	09/01/2010 17:08							

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Wednesday, September 01, 2010 05:20:00

East cheyenne Michaels 1

7667130

TAB 9: Billing Best Practices

Documents required for Accounts Receivable

- ☒ Signed Field Ticket
 - ☒ Customer
 - ☒ HES Approver
- ☒ Signed Work Order Contract
- ☒ Job Summary
- ☒ Job Log

SAP Sales Order Details (Verify against Job Packet Log)

- ☒ Ship To # 210 4665
- ☒ Sold To # 361672
- ☒ Bill To # 361672

Customer Billing Requirements

- ☒ AFE Numbers 05-075-07149
- ☐ PO Numbers
- ☐ EDI Details
- ☐ Upload to myhalliburton.com required

SAP Sales Order Delivery

- ☒ Delivery Error Log (Resolve prior to fill)
- ☒ Pick and Post Sales Order

Bill Sales Order

- ☒ Review Document Flow
- ☒ Sales Order is complete
- ☒ Deliveries are complete
- ☒ Delivery sequence correct
- ☒ Invoice, Sales Order and & Field Ticket value match (Exceptions - Royalties)
- ☒ Verify Invoice has an Accounting Document