

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 361672	Ship To #: 2795454	Quote #:	Sales Order #: 7504806
Customer: EAST CHEYENNE GAS STORAGE		Customer Rep: Maxwell, Rick	
Well Name: Narjes	Well #: #03	API/UWI #: 05-075-07127-00	
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	Srv Supervisor: BLAKE, MICHAEL	MBU ID Emp #: 305760	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BANUELOS, GUADALUPE	12	372277	BLAKE, MICHAEL James	15	305760	COPELAND, GEORGE Willard	12	429242
SNYDER, JONATHAN Leroy	12	435616	WILEY, JAMES A	12	440080			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10241536C	160 mile	10804557C	160 mile	10822531C	160 mile	10824253C	160 mile
10867419C	160 mile	10972458	160 mile	10977079C	160 mile	11142999	160 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
7/16/10	15	3						

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	16 - Jul - 2010	05:30	MST
Job depth MD	5790. ft		Job Depth TVD	Job Started	16 - Jul - 2010	13:29	MST
Water Depth			Wk Ht Above Floor	Job Completed	16 - Jul - 2010	19:16	MST
Perforation Depth (MD)	From	To		Departed Loc	16 - Jul - 2010	20:30	MST

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							4928.	4928.		
Open Hole				7.875				235.	5790.		
Production Casing	New		5.5	4.974	15.			.	5778.		
Surface Casing	Unknown		8.625	8.097	24.			.	235.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,FLT,4-1/2 8RD,2-3/4 SSII	1	EA		
CLR,FLT,4-1/2 8RD,9.5-13.5PPF,2-3/4	1	EA		
CLAMP - LIMIT - 4-1/2 - HINGED -	1	EA		
CENTRALIZER ASSY - 4-1/2 CSG X 6-1/4	20	EA		
KIT,HALL WELD-A	1	EA		
PLUG SET - FREE FALL - 4-1/2 8RD &	1	EA		
CMTR,TYPE S-L,4-1/2 LG 8RD 11.6 - 13.5	1	EA		
BSKT,CEM,4 1/2 CSG X 6 1/4,8 3/4 H	2	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	MUD FLUSH III	MUD FLUSH III - SBM (528788)	24.00	bbl	8.4	.0	.0	.0	
2	Halcem 15.8#	HALCEM (TM) SYSTEM (452986)	220.0	sacks	15.8	1.15	4.94		4.94
		4.94 Gal FRESH WATER							
3	Water Spacer		89.00	bbl	8.34	.0	.0	.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	MUD FLUSH III	MUD FLUSH III - SBM (528788)	24.00	bbl	8.4	.0	.0	.0	
2	Econocem 12#	ECONOCEM (TM) SYSTEM (452992)	680.0	sacks	12.	2.12	12.03		12.03
		12.03 Gal FRESH WATER							
3	Water Spacer		76.00	bbl	8.34	.0	.0	.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	5	Mixing	7	Displacement	7	Avg. Job	6		
Cement Left In Pipe	Amount 44 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 <i>John M. [Signature]</i> 7-16-10
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Well Name: Narjes	Well #: #03	API/UWI #: 05-075-07127-00	
Field: LEWIS CREEK	City (SAP): STERLING	County/Parish: Logan	State: Colorado
Legal Description:			
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.		Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.	
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: BLAKE, MICHAEL	
		MBU ID Emp #: 305760	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	07/16/2010 05:30							ARRIVED ON LOC. WITH ALL THE FLOAT EQUIPMENT AND THE TOOL.
Safety Huddle	07/16/2010 05:45							THE CREW AND EQUIPMENT ARRIVED ON LOC AT 0830
Safety Meeting	07/16/2010 13:00							
Start Job	07/16/2010 13:29							1st. STAGE
Test Lines	07/16/2010 13:30		0.5	1	1		3905.0	TEST PUMPS AND LINES
Pump Water	07/16/2010 13:31		5	10	11		130.0	PUMP WATER SPACER
Pump Spacer 1	07/16/2010 13:34		5	24	25		285.0	PUMP MUD FLUSH
Pump Water	07/16/2010 13:40		5	10	35		385.0	PUMP WATER SPACER
Pump Cement	07/16/2010 13:42		7	45	80		420.0	PUMP (220 sks) OF HALCEM B1 AT 15.8 ppg. ✓
Drop Top Plug	07/16/2010 13:51							SHUT DOWN AND DROP PLUG AND CLEAN LINES
Pump Displacement	07/16/2010 13:55		7	89	169		645.0	PUMP DISPLACEMENT WITH WATER AND CLAY FIX
Bump Plug	07/16/2010 14:13						1975.0	BUMP PLUG AND RELEASED BACK AND CHECK FLOATS HELD
Pause	07/16/2010 14:17							SHUT DOWN AND DROP BOMB AND WAIT 25 min.

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Fridav. Julv 16. 2010 07:37:00

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Open Multiple Stage Cementer	07/16/2010 14:50		1	6	175		840.0	OPEN MSC. AND PUMP TO MAKE SURE GOT CIRCULATION
Pause	07/16/2010 14:52							SHUT DOWN AND RIG UP RIG PUMPS TO THE PLUG CONTAINER AND CIRCULATE FOR 4 hrs. CIRCULATED 4 bbls OF CEMENT TO THE PIT ON THE 1st. STAGE.
Resume	07/16/2010 17:55							#2 STAGE
Test Lines	07/16/2010 17:56		0.5	1	1		3750.0	TEST PUMPS AND LINES
Pump Water	07/16/2010 17:57		5	10	11		125.0	PUMP WATER SPACER
Pump Spacer 1	07/16/2010 17:59		5	24	35		195.0	PUMP MUD FLUSH
Pump Water	07/16/2010 18:05		5	10	45		255.0	PUMP WATER SPACER
Pump Cement	07/16/2010 18:07		7	257	302		325.0	PUMP (680 sks) OF ECONOCEM AT 12.0 ppg. ✓
Drop Top Plug	07/16/2010 18:52							SHUT DOWN AND DROP PLUG
Pump Displacement	07/16/2010 18:53		7	76	378		855.0	PUMP DISPLACEMENT WITH WATER AND CLAY FIX
Bump Plug	07/16/2010 19:08						2830.0	BUMP PLUG AND RELEASED BACK AND CHECK DV TOOL IF CLOSED AND DIDNT
Bump Plug	07/16/2010 19:13						3535.0	REBUMPED THE PLUG AND CHECK DV TOOL IF CLOSED AND CLOSED THIS TIME
End Job	07/16/2010 19:16							

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