

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 361672	Ship To #: 2833083	Quote #:	Sales Order #: 7925434
Customer: EAST CHEYENNE GAS STORAGE		Customer Rep: BARTHOLOMEW, EARL	
Well Name: Gillham	Well #: #1	API/UWI #:	
Field: PEETZ WEST	City (SAP): PEETZ	County/Parish: Logan	State: Colorado
Contractor: Fort Drilling	Rig/Platform Name/Num: 5		
Job Purpose: Cement Multiple Stages			
Well Type: Development Well	Job Type: Cement Multiple Stages		
Sales Person: FLING, MATTHEW	Srv Supervisor: KELEHER, JASON	MBU ID Emp #: 437348	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DIRKS, RICHARD E	11.5	485940	FLYNN, SHAD Michael	4.5	476484	KELEHER, JASON E	30	437348
MASIERO, ANTHONY H	11.5	485254	MILLER, GEOFFREY Alan	30	460232	NIELSON, BRANDON K	30	479703
RODRIGUEZ, RICARDO	19.5	219801						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10246780C	140 mile	10972458	140 mile	11019275C	140 mile	11019824C	140 mile
11064046C	140 mile	11360865C	140 mile	11362287C	140 mile	11410470C	140 mile
11518548	140 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
1-24-11	5		1-25-11	24	5.5	1-26-11	1	
TOTAL			Total is the sum of each column separately					

Job

Job Times

Formation Name						Date	Time	Time Zone
Formation Depth (MD)	Top		Bottom		Called Out	24 - Jan - 2011	15:00	MST
Form Type			BHST		On Location	24 - Jan - 2011	19:00	MST
Job depth MD	5330. ft		Job Depth TVD	5330. ft	Job Started	25 - Jan - 2011	06:09	MST
Water Depth			Wk Ht Above Floor		Job Completed	25 - Jan - 2011	23:57	MST
Perforation Depth (MD)	From		To		Departed Loc	26 - Jan - 2011	01:00	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							2485.	2485.		
Multiple Stage Cementer	Unknown							4904.	4904.		
Open Hole				7.875				4100.	5330.		
Open Hole				8.75				215.	4100.		
Production Casing	New		5.5	4.95	15.5				5330.		
Surface Casing	Unknown		9.625	9.184	22.5				215.		

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			

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Miscellaneous Materials											
Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc	%	Treatment Fld	Conc	Inhibitor	Conc
Fluid Data											
Stage/Plug #: 1											
Fluid #	Stage Type	Fluid Name	Qty	Qty uom	Mixing Density ibm/gal	Yield ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk		
1	Water Spacer		20.00	bbl	.	.0	.0	.0			
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	24.00	bbl	8.4	.0	.0	.0			
3	Water Spacer		20.00	bbl	.	.0	.0	.0			
4	Halcem 15.8#	HALCEM (TM) SYSTEM (452986)	135.0	sacks	15.8	1.15	4.9	4.0	4.9		
4.901 Gal		FRESH WATER									
0.25 lbm		POLY-E-FLAKE (101216940)									
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	4.0			
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	24.00	bbl	8.4	.0	.0	.0			
3	Water Spacer		20.00	bbl	.	.0	.0	.0			
4	Econocem 12#	ECONOCCEM (TM) SYSTEM (452992)	400.0	sacks	12.	2.22	12.67	5.0	12.67		
0.125 lbm		POLY-E-FLAKE (101216940)									
12.669 Gal		FRESH WATER									
5	Halcem 15.8#	HALCEM (TM) SYSTEM (452988)	385.0	sacks	15.8	1.15	4.9	5.0	4.9		
0.25 lbm		POLY-E-FLAKE (101216940)									
4.901 Gal		FRESH WATER									
Stage/Plug #: 3											
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	.	.0	.0	.0			
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	24.00	bbl	8.4	.0	.0	4.0			
3	Water Spacer		20.00	bbl	.	.0	.0	.0			
4	Econocem 12#	ECONOCCEM (TM) SYSTEM (452992)	530.0	sacks	12.	2.23	12.69	5.0	12.69		
12.692 Gal		FRESH WATER									
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	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 							

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Well Name: Gillham	Well #: #1	API/UWI #:	
Field: PEETZ WEST	City (SAP): PEETZ	County/Parish: Logan	State: Colorado
Legal Description:			
Lat:		Long:	
Contractor: Fort Drilling	Rig/Platform Name/Num: 5		
Job Purpose: Cement Multiple Stages		Ticket Amount:	
Well Type: Development Well	Job Type: Cement Multiple Stages		
Sales Person: FLING, MATTHEW	Srv Supervisor: KELEHER, JASON	MBU ID Emp #: 437348	

Activity Description	Date/Time	Cnt	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Arrive at Location from Service Center	01/24/2011 19:00							
Assessment Of Location Safety Meeting	01/24/2011 19:15							
Test Lines	01/25/2011 08:09							PRESSURE TEST TO 3500 PSI
Pump Spacer 1	01/25/2011 08:16		2.5	20			280.0	RIG WATER
Pump Spacer 2	01/25/2011 08:23		2.5	24			354.0	MUDFLUSH III MIXED IN RIG WATER
Pump Spacer 1	01/25/2011 08:33		2.5	20			375.0	RIG WATER
Pump Cement	01/25/2011 08:40		4	27			250.0	135 SKS HALCEM MIXED AT 15.8 PPG WITH RIG WATER
Shutdown	01/25/2011 06:47							
Drop Plug	01/25/2011 06:48							
Clean Lines	01/25/2011 06:49							
Pump Displacement	01/25/2011 06:56		3	126			591.0	MUD SUPPLIED RIG
Bump Plug	01/25/2011 07:28						875.0	GOOD RETURNS THROUGHOUT JOB.
Drop Opening Device For Multiple Stage Cementer	01/25/2011 07:32							WAIT 30 MINUTES
Open Multiple Stage Cementer	01/25/2011 08:04						943.0	CIRCULATED 5 BBLS OF MUD
Circulate Well	01/25/2011 08:10		4				300.0	TURNED OVER TO RIG TO CIRCULATE FOR 6 HOURS
Test Lines	01/25/2011 13:50							PRESSURE TEST TO 3500 PSI

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Wednesday, January 26, 2011 12:27:00

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Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Spacer 1	01/25/2011 13:52		3	20			150.0	RIG WATER
Pump Spacer 2	01/25/2011 14:00		3	24			215.0	MUDFLUSH III MIXED IN RIG WATER
Pump Spacer 1	01/25/2011 14:08		3	20			300.0	RIG WATER
Pump Lead Cement	01/25/2011 14:14		6	158			465.0	400 SKS ECONOCCEM MIXED AT 12.0 PPG WITH RIG WATER
Pump Tail Cement	01/25/2011 14:47		3	74			71.0	365 SKS HALCEM MIXED AT 15.8 PPG WITH RIG WATER
Shutdown	01/25/2011 15:16							
Drop Plug	01/25/2011 15:16							
Pump Displacement	01/25/2011 15:18		3.5	116			780.0	MUD SUPPLIED BY RIG
Bump Plug	01/25/2011 15:46						2402. 0	GOOD RETURNS THROUGHOUT JOB
Drop Opening Device For Multiple Stage Cementer	01/25/2011 15:57							WAIT 20 MINUTES
Open Multiple Stage Cementer	01/25/2011 16:14						622.0	
Circulate Well	01/25/2011 16:20		5				143.0	TURNED OVER TO RIG
Test Lines	01/25/2011 22:25							PRESSURE TEST TO 3500 PSI
Pump Spacer 1	01/25/2011 22:29		4	20			100.0	RIG WATER
Pump Spacer 2	01/25/2011 22:36		4	24			203.0	MUDFLUSH III MIXED IN RIG WATER
Pump Spacer 1	01/25/2011 22:42		4	20			285.0	RIG WATER
Pump Cement	01/25/2011 22:49		5	210			102.0	530 SKS ECONOCCEM MIXED AT 12.0 PPG WITH RIG WATER
Drop Plug	01/25/2011 23:37							
Shutdown	01/25/2011 23:37							
Pump Displacement	01/25/2011 23:41		3	59			350.0	RIG WATER
Bump Plug	01/25/2011 23:55						1860. 0	GOOD RETURNS THROUGHOUT JOB
Check Floats	01/25/2011 23:56						1920. 0	FLOATS HELD

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Activity Description	Date/Time	Cnt #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
End Job	01/25/2011 23:57							

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