

HALLIBURTON

Job Summary

Job Information

Job Start Date	6/3/2011 2:10:00 AM
Job MD	914.0 ft
Job TVD	914.0 ft
Height of Plug Container/Swage Above Rig Floor	3.0 ft
Surface Temperature at Time of Job	50 degF
Mud Type	Oil Based
Actual Mud Density	9 lbm/gal
Time Circulated before job	3.00 hour(s)
Mud Volume Circulated	510.00 bbl
Rate at Which Well was Circulated	4.000 bbl/min
Pipe Movement During Hole Circulation	None
Time From End Mud Circ. to Job Start	15.00 minute
Pipe Movement During Cementing	None
Calculated Displacement	140.82 bbl
Amount of Cement Returns	170.00 bbl
Job Displaced by (rig/halco)	Cement Unit HP Pumps
Annular flow Before Job? (Water/Gas)	Unknown
Annular flow After Job? (Water/Gas)	Unknown

Cementing Equipment

Number of Centralizers Used	68
Pipe Centralization	Through Entire Cement Column
Brand of Float Equipment Used	Halliburton
Did Float Equipment Hold?	Yes
Plug set used?	Yes
Brand of Plug set used?	Halliburton
Did Plugs Bump?	Yes
Calculated Pressure to Bump Plugs	1,161.0 psig

The Road to Excellence Starts with Safety

Sold To #: 346707	Ship To #: 346707	Quote #:	Sales Order #: 8221021
Customer: QUICKSILVER RESOURCES INC-EBUSINESS		Customer Rep: Hord, Ryan	
Well Name: Roundup		Well #: 22-24D	API/UWI #:
Field:	City (SAP): FORT WORTH	County/Parish: Moffat	State: Colorado

Legal Description: Section SW 15 Township 7N Range 93W			
Job Purpose: Cement Production Casing			
Well Type: Producing Well		Job Type: Cement Production Casing	
Sales Person: SCOTT, KYLE		Srvc Supervisor: DAVIS, CODY	MBU ID Emp #: 446891

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANGLIN, JOSHUA B		462343	CARREON, CESAR Martin		362735	DAVIS, CODY R		446891
PEAY, SHANE Blake		472880	REYNOLDS, COREY W		212159	THOMAS, STEPHEN Troy		490352
WEYERMAN, JEREMY Todd		477287	WILLIAMS, CAMERON Kent		438405	WILLIAMS, DONALD Wade		482811

Equipment

HES Unit #	Distance-1 way						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	02 - Jun - 2011	10:00	MST
Form Type		BHST	193 degF	02 - Jun - 2011	15:30	MST
Job depth MD	914. ft	Job Depth TVD	914. ft	03 - Jun - 2011	02:10	MST
Water Depth		Wk Ht Above Floor	3. ft	03 - Jun - 2011	03:50	MST
Perforation Depth (MD)	From	To	Departed Loc	03 - Jun - 2011	06:30	MST

Well Data

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbf/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Production Open Hole				6.125				2972.	9100.		
Intermediate Casing	Unknown		7.	6.366	23.		J-55	.	2972.		
Production Casing	Unknown		4.5	4.	11.6		P-110	.	9100.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CLR,FLT,4-1/2 LG 8RD,9.5-13.5PPF,P-110	1	EA		
SHOE,FLT,4-1/2 8RD,P-110,2-3/4 SSII	1	EA		
MILEAGE FOR CEMENTING CREW,ZI	160	MI		
ZI FUEL SURCHG-CARS/PICKUPS<1 1/2TON	160	MI		

HALLIBURTON

Cementing Job Summary

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 4 1/2, HWE, 3.65 MIN/4.14 MA	1	EA		
PLUG,CMTG, BOT, 4 1/2, HWE, 3.65 MIN/4.14 MA	1	EA		
KCL POTASSIUM CHLORIDE	2045	LB		

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	TUNED SPACER III	TUNED SPACER III - SBM (483826)	20.00	bbl	10.	.0	.0	.0		
	38.32 gal/bbl	FRESH WATER								
	0.125 gal/bbl	MUSOL(R) A, BULK (100003696)								
	0.125 gal/bbl	SEM-7, 55 GAL DRUM (100001626)								
	0.125 gal/bbl	D-AIR 3000L, 5 GAL PAIL (101007444)								
	59.8 lbm/bbl	BARITE, BULK (100003681)								
2	ElastiSeal	ELASTISEAL (TM) SYSTEM (450262)	410.0	sacks	14.3	1.22	5.39		5.39	
	0.4 %	HR-601, 50 LB BAG (101328348)								
	2 %	FDP-C760-04, TOTE TANK (101439825)								
	5.391 Gal	FRESH WATER								
3	ElastiCem	ELASTICEM (TM) SYSTEM (450261)	50.0	sacks	14.3	1.22	5.39		5.39	
	0.4 %	HR-601, 50 LB BAG (101328348)								
	5.391 Gal	FRESH WATER								
4	KCL Displacement		135.00	bbl	8.4			.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	40 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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