

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 303246		Ship To #: 2743079		Quote #:		Sales Order #: 6897831	
Customer: KEITH WALKER OIL & GAS CO LLC EBUS				Customer Rep: Jones, Barry			
Well Name: Freyja			Well #: 18 #1		API/UWI #: 15-025-21482		
Field:		City (SAP): ASHLAND		County/Parish: Clark		State: Kansas	
Legal Description: Section 18 Township 33S Range 25W							
Contractor: .KENAI			Rig/Platform Name/Num: 58				
Job Purpose: Cement Production Casing							
Well Type: Development Well				Job Type: Cement Production Casing			
Sales Person: HESTON, MYRON			Srvc Supervisor: UNDERWOOD, BILLY		MBU ID Emp #: 159068		

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BARROW, WARREN	4	340721	DELGADO, GERARDO	4	438393	TIRRELL, MICHAEL Edward	6	429195
UNDERWOOD, BILLY Dale	6	159068						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10722508	50 mile	10784078	50 mile	10804587	50 mile	10857045	50 mile
10949719	50 mile	10951586	50 mile				

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
9-16-09	4	.5	9-17-09	2.5	1.5			
TOTAL			<i>Total is the sum of each column separately</i>					

Job

Job Times

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				On Location	16 - Sep - 2009	16:30	CST
Form Type			BHST	Job Started	16 - Sep - 2009	20:00	CST
Job depth MD	7059. ft		Job Depth TVD	Job Completed	16 - Sep - 2009	23:40	CST
Water Depth			Wk Ht Above Floor	Job Completed	17 - Sep - 2009	01:40	CST
Perforation Depth (MD)	From		To	Departed Loc	17 - Sep - 2009	02:45	CST

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
Production Hole				7.875				1100.	7060.		
Production Casing	Used		5.5	4.95	17.	8 RD (LT&C)	L-80	.	7059.		
Surface Casing	Unknown		8.625	8.097	24.	8 RD (ST&C)	J-55	.	1100.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,FLOAT,5 1/2 8RD,2 3/4 SUPER SEAL	1	EA		
PLUG ASSY,3 WIPR LTH-DWN,5 1/2 CSG	1	EA		
BAFFLE ASSY - 5-1/2 8RD - LATCH-DOWN	1	EA		
CENTRALIZER ASSY - TURBO - API -	24	EA		
BSKT,CEM,5 1/2 CSG X 7 7/8,8 3/4 H	3	EA		
COLLAR-STOP-5 1/2"-W/DOGS	1	EA		
KIT,HALL WELD-A	1	EA		

Cementing Job Summary

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 Pre-Flush					10	bbl	8.33	.0	.0	5.0		
2	PVS-5 Spacer (Caustic Soda Solution)					25	bbl	8.33	.0	.0	5.0		
3	Water Spacer					10	bbl	8.33	.0	.0	5.0		
4	Scavenger Slurry	CMT - PREMIUM CEMENT (100003687)				15	sacks	10.	7.51	49.41	5.0	49.41	
	94 lbm	CMT - PREMIUM - CLASS H REG OR TYPE V, BULK (100003687)											
	10 %	CAL-SEAL 60, 50 LB BAG (101217146)											
	10 %	SALT, 100 LB BAG (100003652)											
	5 lbm	KOL-SEAL, BULK (100064233)											
	0.75 %	HALAD(R)-322, 50 LB (100003646)											
	0.25 lbm	POLY-E-FLAKE (101216940)											
	49.411 Gal	FRESH WATER											
5	Primary Slurry	CMT - PREMIUM CEMENT (100003687)				350	sacks	14.58	1.6	7.13	5.0	7.13	
	94 lbm	CMT - PREMIUM - CLASS H REG OR TYPE V, BULK (100003687)											
	10 %	CAL-SEAL 60, 50 LB BAG (101217146)											
	10 %	SALT, 100 LB BAG (100003652)											
	5 lbm	KOL-SEAL, BULK (100064233)											
	0.75 %	HALAD(R)-322, 50 LB (100003646)											
	0.25 lbm	POLY-E-FLAKE (101216940)											
	7.128 Gal	FRESH WATER											
6	Displacement					163	bbl	8.33	.0	.0	5.0		
7	RAT AND MOUSE HOLE	CMT - PREMIUM CEMENT (100003687)				40	sacks	14.58	1.6	7.13		7.13	
	94 lbm	CMT - PREMIUM - CLASS H REG OR TYPE V, BULK (100003687)											
	10 %	CAL-SEAL 60, 50 LB BAG (101217146)											
	10 %	SALT, 100 LB BAG (100003652)											
	5 lbm	KOL-SEAL, BULK (100064233)											
	0.75 %	HALAD(R)-322, 50 LB (100003646)											
	0.25 lbm	POLY-E-FLAKE (101216940)											
	7.128 Gal	FRESH WATER											
Calculated Values			Pressures				Volumes						
Displacement	163	Shut In: Instant				Lost Returns		Cement Slurry		132	Pad		
Top Of Cement		5 Min				Cement Returns		Actual Displacement		163	Treatment		
Frac Gradient		15 Min				Spacers		45	Load and Breakdown		Total Job 340		

Cementing Job Summary

Rates									
Circulating	4.5	Mixing	5	Displacement	5	Avg. Job	5		
Cement Left In Pipe	Amount	42 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					