

The Road to Excellence Starts with Safety

Sold To #: 300496	Ship To #: 2939179	Quote #:	Sales Order #: 9745172
Customer: APACHE CORP		Customer Rep: Johnston, Dwayne	
Well Name: Zerr		Well #: 31-41-1H	API/UWI #: 15-179-2130701
Field:	City (SAP): HOXIE	County/Parish: Sheridan	State: Kansas
Legal Description: Section 31 Township 10S Range 28W			
Contractor: Heraclas		Rig/Platform Name/Num:	
Job Purpose: Cement Intermediate Casing			
Well Type: Development Well		Job Type: Cement Intermediate Casing	
Sales Person: MEREDITH, JERRY		Srvc Supervisor: LEE, SEITH	MBU ID Emp #: 483600

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ATCHISON, DONALD Edward	25	106258	BERUMEN, EDUARDO	25	267804	COFFMAN, TYLER Richard	25	511173
JOHNSON, MARK D	25	514724	LEE, SEITH Adam	25.0	483600	SALAZAR, JERRY Edward	25	270722

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	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
9/13/2012	11	0	9/14/2012	14	2			

TOTAL *Total is the sum of each column separately*

Job

Job Times

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone	
Formation Depth (MD)			On Location	13 - Sep - 2012	04:00	CST	
Form Type		BHST	125 degF	On Location	13 - Sep - 2012	13:00	CST
Job depth MD	5200. ft	Job Depth TVD	5200. ft	Job Started	14 - Sep - 2012	10:19	CST
Water Depth		Wk Ht Above Floor	6	Job Completed	14 - Sep - 2012	12:07	CST
Perforation Depth (MD)	From	To	Departed Loc	14 - Sep - 2012	14:20	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
Intermediate Open Hole				8.75				1500.	4900.	1500.	4500.
Intermediate Casing	Unknown		7.	6.276	26.	BUTTRESS	HCP110	.	4900.	.	4500.
Surface Casing	Unknown		9.625	8.835	40.	8 RD (LT&C)	J-55	.	1500.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SHOE,FLT,7 BUTRS,P/Q,4-1/4 SSII	2	EA		
CTRZR ASSY,API,7 CSG X 8 3/4HOLE,HNGD	10	EA		
KIT,HALL WELD-A	4	EA		
CLR,FLT,7 BUTRS 23-38PPF,P/Q,4-1/4NR	2	EA		
PLUG,CMTG,BOT,7 IN 17-32#,5.870 NR 24TH	2	EA		
PLUG,CMTG,TOP,7 IN 17-32#,5.870 NR 24TH	2	EA		
CENTRALIZER-STRAIGHT-7"-SLIP ON	7	EA		
CLAMP - LIMIT - 7 - HINGED -	2	EA		

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 ft3/sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Water Spacer					50.00	bbl	8.33	.0	.0	5		
2	Lead Cement	HALLIBURTON LIGHT STANDARD - SBM (12313)				350.0	sacks	12.5	2.01	10.96	5	10.96	
	0.3 %	HALAD(R)-23, 50 LB (101209204)											
	0.125 lbm	POLY-E-FLAKE (101216940)											
	10.956 Gal	FRESH WATER											
3	Tail Cement	CMT - PREMIUM CEMENT (100003687)				165.0	sacks	15.8	1.15	4.99	4	4.99	
	94 lbm	CMT - PREMIUM - CLASS H REG OR TYPE V, BULK (100003687)											
	4.989 Gal	FRESH WATER											
4	Displacement (TBC)					188.00	bbl	.			7		
Calculated Values			Pressures				Volumes						
Displacement	188	Shut In: Instant				Lost Returns	0	Cement Slurry		260	Pad		
Top Of Cement	0	5 Min				Cement Returns	0	Actual Displacement		188	Treatment		
Frac Gradient		15 Min				Spacers	50	Load and Breakdown			Total Job		
Rates													
Circulating	4	Mixing				4	Displacement		4	Avg. Job		4	
Cement Left In Pipe	Amount	47 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							