

The Road to Excellence Starts with Safety

Sold To #: 300496	Ship To #: 2939179	Quote #:	Sales Order #: 9863649
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 Production Liner			
Well Type: Development Well		Job Type: Cement Production Liner	
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 #
BRINKMAN, BENNETT Wade	20	414024	COFFMAN, TYLER Richard	20	511173	HAGEE, MILES Killion	20	427231
JOHNSON, MATTHEW Warren	20	525955	LEE, SEITH Adam	20	483600	MENDOZA, VICTOR	20	442596

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
2012 OCT 4	6	0	2012 OCT 5	14	2.5			

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	04 - Oct - 2012	10:00	CST
Form Type		BHST	Job Started	04 - Oct - 2012	18:00	CST
Job depth MD	8357. ft	Job Depth TVD	Job Completed	05 - Oct - 2012	09:05	CST
Water Depth		Wk Ht Above Floor	Departed Loc	05 - Oct - 2012	02:00	CST
Perforation Depth (MD)	From	To			14:00	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
Liner Open Hole				6.75				4954.	8357.	4500.	4516.
Intermediate Casing	Unknown		7.	6.276	26.	BUTTRESS	HCP110	.	4954.	.	4500.
Production Liner	Unknown		4.5	3.92	13.5	HYDRIL - SERIES 500 TYPE 521	P-110	4025.	8357.	4025.	4516.
Drill Pipe	Unknown		4.	3.34	16.14	XT-39	S-135	.	4025.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
CNTRLZR SLIDER II 4-1/2X6/18,#0412-0618S	120	EA		
SOLID STOP COLLAR 4-1/2", #0412-00SO	240	EA		
SUGAR - GRANULATED	40	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				7721	Bridge Plug					Bottom Plug			
Float Collar				7669	Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool				3384						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	DUAL SPACER	DUAL SPACER - SBM (13251)		bbl	9.2	.0	.0	4	
	0.1 gal/bbl	DUAL SPACER MIXING AID LXP (100003878)							
	38.2 gal/bbl	FRESH WATER							
	0.05 gal/bbl	D-AIR 3000L, 5 GAL PAIL (101007444)							
2	Liner Cement	POZ STANDARD 50/50 - SBM (12308)		sacks	13.6	1.52	7.12	5	7.12
	2 %	BENTONITE, BULK (100003682)							
	0.4 %	HALAD(R)-9, 50 LB (100001617)							
	2 lbm	KOL-SEAL, BULK (100064233)							
	0.2 %	HR-800, 50 LB SACK (101619742)							
	7.121 Gal	FRESH WATER							
3	Water Displacement			bbl	8.33	.0	.0	6	
Calculated Values			Pressures		Volumes				
Displacement	93	Shut In: Instant		Lost Returns	0	Cement Slurry	135	Pad	
Top Of Cement	2459	5 Min		Cement Returns	20	Actual Displacement	93	Treatment	
Frac Gradient		15 Min		Spacers	50	Load and Breakdown		Total Job	
Rates									
Circulating	4	Mixing	4	Displacement	6	Avg. Job	5		
Cement Left In Pipe	Amount	52 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					