

The Road to Excellence Starts with Safety

Sold To #: 305801	Ship To #: 2888816	Quote #:	Sales Order #: 9132840
Customer: ENERGEN RESOURCES CORP EBUS	Customer Rep: Wells, Robert		
Well Name: N. Carracas 32-5 9C #4	Well #:	API/UWI #:	
Field:	City (SAP): ARBOLES	County/Parish:	State:
Contractor: KEY	Rig/Platform Name/Num: KEY 887		
Job Purpose: Cement Surface Casing			
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: SNYDER, RANDALL	Srv Supervisor: ANGLESTEIN, TROY	MBU ID Emp #: 436099	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ANGLESTEIN, TROY Edward WM	5	436099	BRANDT, NICHOLAS Wayne	5	487947	GONZALES, MATTHEW Lee	5	479805
SALAZAR, PAUL Omar	5	445614						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10001398C	70 mile	10025031	70 mile	10296152C	70 mile	10741123	70 mile
10897797	70 mile	11338219	70 mile	11583926	70 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
12/15/2011	5	1.5						
TOTAL	Total is the sum of each column separately							

Job

Job Times

Job Name				Job Phase				
Formation Name					Date	Time	Time Zone	
Formation Depth (MD)		Top	Bottom	Called Out	15 - Dec - 2011	14:30	MST	
Form Type		BHST		On Location	15 - Dec - 2011	18:00	MST	
Job depth MD		850. ft	Job Depth TVD	850. ft	Job Started	15 - Dec - 2011	20:59	MST
Water Depth		Wk Ht Above Floor		10. ft	Job Completed	15 - Dec - 2011	22:18	MST
Perforation Depth (MD)		From	To	Departed Loc	15 - Dec - 2011	23:30	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
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Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
SUGAR, GRANULATED, IMPERIAL	100	LB		
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9.625	1	HES
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9.625	1	HES
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				

Cementing Job Summary

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		30.00	bbl	8.33	.0	.0	3	
2	Scavenger	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	45.0	sacks	14.8	1.35	6.35	3	6.35
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	6.345 Gal	FRESH WATER							
3	Surface Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	425.0	sacks	15.8	1.17	5.0	3	5.0
	94 lbm	CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685)							
	0.125 lbm	POLY-E-FLAKE (101216940)							
	2 %	CALCIUM CHLORIDE - HI TEST PELLET (100005053)							
	4.998 Gal	FRESH WATER							
4	Water Displacement		64.00	bbl	8.33	.0	.0	3	
Calculated Values		Pressures		Volumes					
Displacement	63.4	Shut In: Instant		Lost Returns	0	Cement Slurry	88.6	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	30	Actual Displacement	63.4	Treatment	
Frac Gradient		15 Min		Spacers	40.8	Load and Breakdown		Total Job	193
Rates									
Circulating	4.5	Mixing		3	Displacement	3	Avg. Job	3	
Cement Left In Pipe	Amount	43.9 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					