

The Road to Excellence Starts with Safety

Sold To #: 305801	Ship To #: 2924123	Quote #:	Sales Order #: 9474111
Customer: ENERGEN RESOURCES CORP EBUS		Customer Rep:	
Well Name: Navajo Lake 32-5		Well #: 16-3	API/UWI #:
Field:	City (SAP): ARBOLES	County/Parish: Archuleta	State: Colorado
Contractor: Key Well Services		Rig/Platform Name/Num: KEY 887	
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: SNYDER, RANDALL		Srvc Supervisor: LAMBSON, NATHANIEL	MBU ID Emp #: 343100

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ETCITY, JERRY	19	227876	JOHNSON, RICKEY Allen	19	516411	JONES, DAVID Michael	19	409749
LAMBSON, NATHANIEL A	19	343100	LAMBSON, NATHANIEL A	0.0	343100	MESTAS, CHAD M	19	516495

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10001398C	63 mile	10025039	63 mile	10025041	63 mile	10823383	63 mile
11583926	63 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
5/1/12	19							
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	30 - Apr - 2012	09:00	MST
Form Type			BHST	On Location	30 - Apr - 2012	13:00	MST
Job depth MD	937. ft		Job Depth TVD	937. ft	Job Started	01 - May - 2012	00:00
Water Depth			Wk Ht Above Floor	5. ft	Job Completed	01 - May - 2012	00:00
Perforation Depth (MD)	From		To		Departed Loc	01 - May - 2012	00:00

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
14 3/4 Open Hole				14.75				.	900.		
10 3/4 Surface Casing	Unknown		10.75	9.001	40.5		H-40	.	900.		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP, 10 3/4, HWE, 9.09 MIN/10.09	1	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 ft ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water		10.00	bbl	8.33	.0	.0	.0	
2	Surface Cement	CMT - PREMIUM - CLASS G, 94 LB SK (100003685)	880.0	sacks	15.8	1.17	5.0		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							
3	Water Displacement		87.00	bbl	8.33	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	87.3	Shut In: Instant	325PSI	Lost Returns		Cement Slurry	183	Pad	
Top Of Cement	0	5 Min		Cement Returns	86	Actual Displacement	87.5	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating	2	Mixing	5	Displacement	6	Avg. Job	5		
Cement Left In Pipe	Amount	46.36	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					