

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2779924	Quote #:	Sales Order #: 7322326
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: Stapleton, Gary		
Well Name: DF Ranch	Well #: 1161-9-24	API/UWI #:	
Field: GROVER	City (SAP): GROVER	County/Parish: Weld	State: Colorado
Contractor: FORT	Rig/Platform Name/Num: FORT 5		
Job Purpose: Cement Multiple Stages			
Well Type: Development Well	Job Type: Cement Multiple Stages		
Sales Person: FLING, MATTHEW	Srv Supervisor: SANFORD, DALE	MBU ID Emp #: 219527	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
CHAVEZ, JEROME Christophe	9.5	458298	REA, WADE Hammond	9.5	459536	SANFORD, DALE A	9.5	219527
SIPNEFSKI, ROBERT Anthony	9.5	419391	VASQUEZ, ALVARO A	9.5	401745			

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10246780C	95 mile	10248053C	95 mile	10724567C	95 mile	10857080	95 mile
10948696	95 mile	10972458	95 mile	11398490	95 mile		

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
4-22-10	1	0	4-23-10	8.5	7			

TOTAL Total is the sum of each column separately

Job				Job Times			
Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
Form Type			BHST	On Location	22 - Apr - 2010	17:30	MST
Job depth MD	7920. ft		Job Depth TVD	Job Started	22 - Apr - 2010	23:00	MST
Water Depth			Wk Ht Above Floor	Job Completed	23 - Apr - 2010	00:34	MST
Perforation Depth (MD)	From	To		Job Completed	23 - Apr - 2010	07:39	MST
				Departed Loc	23 - Apr - 2010	08:30	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
Multiple Stage Cementer	New							7271	7272		
Open Hole				7.875				1087	7940		
Production casing	New		5.5	4.892	17				7920		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe				7920	Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool				7271						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	MUD FLUSH III	MUD FLUSH III - SBM (528788)	1,000.0 0	Gal	8.4	.0	.0	4.0	
2	MUD FLUSH III	MUD FLUSH III - SBM (528788)	1,000.0 0	Gal	8.4	.0	1000.0	.0	
3	Tail Cement 13.5#	FRACCEM (TM) SYSTEM (452963)	80.0	sacks	13.5	1.7	8.16		8.16
8.162 Gal		FRESH WATER							
4	2nd Stage Lead 12.5#	ECONOCCEM (TM) SYSTEM (452992)	720.0	sacks	12.5	1.95	10.62		10.62
10.696 Gal		FRESH WATER							
5	2nd Stage Tail 13.5#	FRACCEM (TM) SYSTEM (452963)	110.0	sacks	13.5	1.7	8.16		8.16
8.162 Gal		FRESH WATER							
6	Clayfix-3		183.00	bbl	8.33	.0	.0	.0	
2.5 gal/Mgal		CLAYFIX 3, TOTETANK (101583425)							
Calculated Values		Pressures		Volumes					
Displacement		Shut In: Instant	1800	Lost Returns	NO	Cement Slurry		Pad	
Top Of Cement	SURF	5 Min		Cement Returns	3	Actual Displacement		Treatment	
Frac Gradient		15 Min		Spacers		Load and Breakdown		Total Job	
Rates									
Circulating	6	Mixing	6	Displacement	6	Avg. Job	6		
Cement Left In Pipe	Amount	17 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					