
NOBLE ENERGY INC E-BUSINESS

**Mossberg PMJ 28-09
WATTENBERG
Weld County , Colorado**

Squeeze Hole in Casing
31-Oct-2012

Job Site Documents

The Road to Excellence Starts with Safety

Sold To #: 345242		Ship To #: 2961117		Quote #:		Sales Order #: 9932801	
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: Zwaagstra, Erich			
Well Name: Mossberg			Well #: PMJ 28-09			API/UWI #: 0	
Field: WATTENBERG		City (SAP): EVANS		County/Parish: Weld			State: Colorado
Contractor: Ensign			Rig/Platform Name/Num:				
Job Purpose: Squeeze Hole in Casing							
Well Type: Development Well			Job Type: Squeeze Hole in Casing				
Sales Person: AARON, WESLEY			Srvc Supervisor: WHEELER, JUSTIN			MBU ID Emp #: 196470	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BAMMER, JORDAN Blaine	2	526575	IPSON, TIMOTHY J	2	485018	SANSONI, NICHOLAS Sterling J	2	502962
WHEELER, JUSTIN W	2	196470						

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
11542778	30 mile	11562546C	30 mile	11566182	30 mile	11605599	30 mile

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10-31-12	2	2						
TOTAL			Total is the sum of each column separately					

Job

Formation Name	Formation Depth (MD)	Top	Bottom	Form Type	Job depth MD	Job Depth TVD	Water Depth	Perforation Depth (MD)	From	To
				BHST	574. ft	574. ft	Wk Ht Above Floor			
Job Times										
				Date	Time	Time Zone				
Called Out				31 - Oct - 2012	00:00	MST				
On Location				31 - Oct - 2012	09:30	MST				
Job Started				31 - Oct - 2012	10:00	MST				
Job Completed				31 - Oct - 2012	10:47	MST				
Departed Loc				31 - Oct - 2012	11:30	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
Surface Casing	Used		8.625	8.097	24.			.	315.	.	315.
Tubing	Unknown		1.25	1.995				.	576.	.	576.

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					Tubing	1.25			576'	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				

Stage/Plug #: 1

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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	15.8# Cement	HALCEM (TM) SYSTEM (452986)	300.0	sacks	15.79	1.15	5.0	2.0	5.0	
5 Gal		FRESH WATER								
Calculated Values		Pressures		Volumes						
Displacement	1	Shut In: Instant	125	Lost Returns	No	Cement Slurry	61.4	Pad		
Top Of Cement	Surface	5 Min		Cement Returns	2 bbls	Actual Displacement	1	Treatment		
Frac Gradient		15 Min		Spacers	10 bbls	Load and Breakdown		Total Job		
Rates										
Circulating		Mixing		Displacement		Avg. Job				
Cement Left In Pipe	Amount	0 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						

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Well Name: Mossberg			Well #: PMJ 28-09			API/UWI #: 0	
Field: WATTENBERG		City (SAP): EVANS		County/Parish: Weld			State: Colorado
Legal Description:							
Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs.				Long: E 0 deg. OR E 0 deg. 0 min. 0 secs.			
Contractor: Ensign			Rig/Platform Name/Num:				
Job Purpose: Squeeze Hole in Casing						Ticket Amount:	
Well Type: Development Well			Job Type: Squeeze Hole in Casing				
Sales Person: AARON, WESLEY			Srcv Supervisor: WHEELER, JUSTIN			MBU ID Emp #: 196470	

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Depart from Service Center or Other Site	10/31/2012 09:00							Depart From Different Noble Location, for this Location
Arrive At Loc	10/31/2012 09:30							
Safety Meeting - Pre Rig-Up	10/31/2012 09:35							Water Provided By Rig, Tested ok for Mixing Cement
Test Lines	10/31/2012 10:01							Pressure Test Lines to 2500 PSI (1 1/4" Tubing Set @ 576')
Pump Spacer	10/31/2012 10:02		0.5	10		20.0		Pump Fresh Water Spacer, Establish Circulation
Pump Cement	10/31/2012 10:18		2	61.4		250.0		Mix and Pump 300 sks Class G Cement @ 15.8 lb/gal (Density Verified By Pressurized Scales)
Cement Returns to Surface	10/31/2012 10:45		2			650.0		2 bbls Cement to Surface
Pump Displacement	10/31/2012 10:46		2	1		655.0		Pump 1 bbl Fresh Water Displacement to Clear Tubing
Shutdown	10/31/2012 10:47							Shutdown
Safety Meeting - Pre Rig-Down	10/31/2012 11:00							Safety Meeting w/ HES Crew Prior to Rigging Down (Wet and Dry Samples of Cement Left on Location)
Safety Meeting - Departing Location	10/31/2012 11:30							Journey Management Meeting with HES Crew, Prior to Departing Location