

# HALLIBURTON

## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 345242	Ship To #: 2848952	Quote #:	Sales Order #: 8124856
Customer: NOBLE ENERGY INC E-BUSINESS	Customer Rep: BIGGS, STEVE		
Well Name: WATTENBERG Wells Ranch USX	Well #: BB15-65HN	API/UMI #: 05-123-33100-00	
Field: WATTENBERG City (SAP): KERSEY	County/Parish: Weld	State: Colorado	
Contractor: H&P	Rig/Platform Name/Num: 343		
Job Purpose: Plug Service - Whipstock			
Well Type: Development Well	Job Type: Plug Service - Whipstock		
Sales Person: PETERSON, ERIC	Srvc Supervisor: SIPNEFSKI, ROBERT	TMBU ID Emp #: 419391	

### Job Personnel

HES Emp Name	Exp Hrs	HES Emp Name	Exp Hrs	HES Emp Name	Exp Hrs	Emp #
BARNES, BRIAN L	34	CONGDON, RICHARD S.	34	HALE, ROBERT E	34	470588
PICKELL, CHRISTOPHER Lee	34	PLEINESS, RYAN	34	SIPNEFSKI, ROBERT Anthony	34	419391
SNYDER, JONATHAN Leroy	34					

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10248062C	60 mile	11019275C	60 mile	11036285C	60 mile
11341988C	60 mile	11606995	60 mile	5707C	60 mile

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
4/23/11	22	1	4/24/11	12.5	1
<b>TOTAL</b>			Total is the sum of each column separately		

Formation Name	Top	Bottom	Date	Time	Time Zone
Formation Depth (MD)			22 - Apr - 2011	22:00	MST
Form Type	BHST		23 - Apr - 2011	02:20	MST
Job depth MD	6612 ft	Job Depth TVD	23 - Apr - 2011	10:47	MST
Water Depth		Wk Ht Above Floor	24 - Apr - 2011	11:10	MST
Perforation Depth (MD)	From	To	24 - Apr - 2011	12:30	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	Unknown		9.625		36.				750.		
Drill Pipe	Unknown		4.						8650.		
Stinger	Unknown		2.375	1.995	4.8			6650.	7250.		

Type	Size	Qty	Make	Depth	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer				Top Plug			
Float Shoe					Bridge Plug				Bottom Plug			
Float Outlet					Machine				Bottom plug end			
Insert Float									Plug Container			
Stage Tool									Centralizers			

Gelling Agt	Conc	Surfactant Inhibitor	Conc	Acid Type	Qty	Conc	%
Treatment Fld	Conc		Conc	Sand Type	Size	Qty	

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## Cementing Job Log

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Sold To #: 345242		Ship To #: 2848952		Quote #:		Sales Order #: 8124856	
Customer: NOBLE ENERGY INC E-BUSINESS				Customer Rep: BIGGS, STEVE			
Well Name: Wells Ranch USX		Well #: BB15-65HN		API/URN #: 05-123-33100-00			
Field: WATTENBERG		City (SAP): KERSEY		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: H&P		Rig/Platform Name/Num: 343		Ticket Amount:			
Job Purpose: Plug Service - Whipstock		Job Type: Plug Service - Whipstock					
Well Type: Development Well		Sales Person: PETERSON, ERIC					
Sales Person: PETERSON, ERIC		Srv Supervisor: SIPNEFSKI, ROBERT					
		MBU ID Emp #: 419391					
Arrive at Location from Service Center	04/23/2011 02:20						DID HAZARD HUNT LOCATED POSSIBLE HAZARDS.
Safety Meeting	04/23/2011 09:30						HELD PRE-JOB SAFETY MEETING WITH ALL 3RD PARTY PERSONELL.
Test Lines	04/23/2011 09:59					2179.0	
Pump Spacer 1	04/23/2011 10:00	3	42.5	193.5		117.0	PUMPED 42.5 BBLs OF TUNED SPACER III @ 13.5 PPG MIXED WITH RIG WATER.
Pump Cement	04/23/2011 10:22	3	44	237.5		123.0	PUMPED 44 BBLs OF PLUGCEM @ 17.5 PPG MIXED WITH RIG WATER.
Safety Meeting	04/23/2011 10:30						HELD PRE-JOB SAFETY MEETING WITH ALL 3RD PARTY PERSONELL.
Pump Spacer 2	04/23/2011 10:42	3	7.5	245		98.0	PUMPED 7.5 BBLs OF TUNED SPACER III @ 13.5 PPG MIXED WITH RIG WATER.
Pump Displacement	04/23/2011 10:45	4	52	297		111.0	PUMPED DISPLACEMENT WITH 10.2 PPG MUD SUPPLIED BY RIG.
Start Job	04/23/2011 10:47						ADVISED BY CO-MAN STINGER PLUGGED AND IS TRIPPING TUBING AND CASING OUT OF HOLE.

Sold To #: 7.20.130

Ship To #: 2848952

Quote #:

Sales Order #:

8124856

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## Cementing Job Log

Test Lines		04/23/2011 10:55					1388. 0	
Pump Spacer 1		04/23/2011 23:08	3	42.5	42.5		240.0	PUMPED 42.5 BBLS OF TUNED SPACER III @13.5 PPG. MIXED WITH RIG WATER.
Pump Cement		04/23/2011 23:28	2.5	44	88.5		152.0	PUMPED 44 BBLS OF PLUGCEM @ 17.5 PPG MIXED WITH RIG WATER.
Pump Spacer 2		04/23/2011 23:46	2.5	7.5	94		82.0	PUMPED 7.5 BBLS OF TUNED SPACER III @ 13.5 PPG MIXED WITH RIG WATER.
Pump Displacement		04/23/2011 23:53	3	57	151		256.0	PUMPED DISPLACEMENT. WITH 10.2 PPG MUD. SUPPLIED BY RIG.
Other		04/24/2011 00:06						SHUTDOWN TURNED OVER TO RIG TO CIRCULATE BOTTOMS UP TWICE BEFORE PUMPING 2ND PLUG. RIG CIRCULATED AN EXTREMELY VISCOUS PLUG TO SURFACE. MUD ENGINEER DIVERTED ALL RETURNS AWAY FROM MUD TANKS. SAMPLE WEIGHED 12.5PPG
Other		04/24/2011 11:01					238.0	PLUG BALANCED. ALL STANDS PULLED DRY. CUSTOMER PLANS TO WAIT 24 HOURS PRIOR TO DRILLING OUT
End Job		04/24/2011 11:15						HELD SAFETY MEETING, AND PREPARED FOR DEPARTURE

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