

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3790689	Quote #: 0022387193	Sales Order #: 0904514411
Customer: ANADARKO PETROLEUM CORP-EBUS		Customer Rep: CARLTON COOLEY	
Well Name: NEWBY		Well #: 2N-33HZ	API/UWI #: 05-123-44568-00
Field: WATTENBERG	City (SAP): LONGMONT	County/Parish: WELD	State: COLORADO
Legal Description: SW SE-33-3N-68W-589FSL-1455FEL			
Contractor: NABORS DRLG		Rig/Platform Name/Num: NABORS X22	
Job BOM: 7525 7525			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Vitali Neverdasov	

**Job**

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	12701ft Job Depth TVD 7200
Water Depth	Wk Ht Above Floor
Perforation Depth (MD)	From To

**Well Data**

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Drill Pipe		4	3.34	14			0	5887	0	0
Casing		7	6.276	26	LTC	HCP110	0	6126	0	0
Casing	0	4.5	4	11.6	LTC	HCP110	5887	12701	0	0
Open Hole Section			6.125				6100	12712	0	0

**Tools and Accessories**

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	4.5				Top Plug	4.5	1	WFD
Float Shoe	4.5	1	WFD	12701	Bottom Plug	4.5	0	NA
Float Collar	4.5	1	WFD	12654	SSR plug set	4.5		NA
Insert Float	4.5				Plug Container	4.5	0	NA
Stage Tool	4.5				Centralizers	4.5		NA

**Fluid Data**

Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Tuned Spacer III	Tuned Spacer III	60	bbl	10.5	6.25				
	0.70 gal/bbl	<b>MUSOL A, 330 GAL TOTE - (790828)</b>								
	88.91 lbm/bbl	<b>BARITE, BULK (100003681)</b>								
	37.58 gal/bbl	<b>FRESH WATER</b>								
	0.70 gal/bbl	<b>DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)</b>								

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	EconoCem	ECONOCEM (TM) SYSTEM	410	sack	13.5	1.68		6	7.98	
7.98 Gal		<b>FRESH WATER</b>								
0.50 %		<b>HR-5, 50 LB SK (100005050)</b>								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
3	Displacement Fluid	Displacement Fluid	162	bbl	8.34					
Cement Left In Pipe		Amount	47 ft		Reason			Shoe Joint		
<b>Comment :</b> 5 BBLS OF CEMENT BACK. DID NOT BUMP PLUG. FLOATS HELD.										

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comments
Event	1	Call Out	Call Out	12/20/2017	13:00:00	USER	ON LOCATION ASAP
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	12/20/2017	15:15:00	USER	HELD JSA PRIOR LEAVING THE YARD
Event	3	Depart Shop for Location	Depart Shop for Location	12/20/2017	15:32:00	USER	LEAVING THE YARD
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	12/20/2017	16:30:00	USER	25 MILES.DISCUSS NUMBERS AND PRCEURE WITH CUSTOMER/ RIG IS ON BUTTOM CIRCULATING.
Event	5	Other	Other	12/20/2017	16:55:00	USER	SPOT TRUCKS
Event	6	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	12/20/2017	17:00:00	USER	HELD PRE RIG UP JSA
Event	7	Rig-up Lines	Rig-up Lines	12/20/2017	17:05:00	USER	RIG UP LINES
Event	8	Safety Meeting - Pre Job	Safety Meeting - Pre Job	12/20/2017	18:25:00	USER	HELD JSA WITH ALL PERSONAL
Event	9	Start Job	Start Job	12/20/2017	19:19:40	COM4	
Event	10	Pressure Test	Pressure Test	12/20/2017	19:26:00	USER	LOAD LINE AND TEST TO 4879 PSI. PUMP WAS LOOSING ABOUT 2 PSI PER SECOND. GOT APPROVAL TO PUMP THE JOB.
Event	11	Pump Spacer	Pump Spacer	12/20/2017	19:58:00	USER	BATCH/ WEIGH/ PUMP 60 BBLs OF TUNED SPACER III WITH SURFACTANS @ 10.5 PPG
Event	12	Pump Cement	Pump Cement	12/20/2017	20:12:02	USER	WEIGH/ PUMP 410 SKS (122.7 BBLs) OF ECONOCEM @ 13.5 PPG

Event	13	Shutdown	Shutdown	12/20/2017	20:36:00	USER	RIG DOWN DRILL PIPE SWAGE TO LOAD DART/ RIG HAD PROBLEM WITH AIR TO BLOW DOWN LINE. PER CUSTOMER DID NOT BLOW DOWN LINE.
Event	14	Other	Other	12/20/2017	20:42:00	USER	WASH UP PUMPS AND LINES
Event	15	Pump Displacement	Pump Displacement	12/20/2017	20:55:00	USER	START FRESH WATER DICPLACEMENT. FIRST 20 BBLs WITH MMCR. 120 BBLs WITH BIOCIDe.
Event	16	Slow Rate	Slow Rate	12/20/2017	21:06:00	USER	SLOW DOWN TO PICK UP THE PLUG
Event	17	Other	Other	12/20/2017	21:08:00	USER	PICK UP RATE
Event	18	Slow Rate	Slow Rate	12/20/2017	21:27:00	USER	
Event	19	Shutdown	Shutdown	12/20/2017	21:33:00	USER	PER TOOL HAND SHUT DOWN @ CALCULATED VOLUME. DID NOT BUMP PLUG
Event	20	Check Floats	Check Floats	12/20/2017	21:34:00	USER	FLOATS HELD
Event	21	Other	Other	12/20/2017	21:41:00	USER	RIG SET THE PACKER. RIG IS TESTING THE PACKER. RIG HAD PROBLEM TO PRIME THE MUD PUMP.
Event	22	Other	Other	12/20/2017	22:19:02	USER	ROLL 7" CLEAN
Event	23	Shutdown	Shutdown	12/20/2017	22:45:00	USER	JOB IS COMPLETE

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Event	24	End Job	End Job	12/20/2017	22:48:00	COM4	
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Event	25	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig-Down	12/20/2017	22:50:00	USER	HELD PRE RIG DOWN JSA / RIGGING DOWN
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Event	26	Depart Location Safety Meeting	Depart Location Safety Meeting	12/21/2017	00:40:00	USER	
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Event	27	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	12/21/2017	00:55:00	USER	
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3.0 Attachments

3.1 Job Chart

