

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3811884		Quote #: 0022397858		Sales Order #: 0904593924					
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: JAMES							
Well Name: NEWBY STATE			Well #: 16N-4HZ		API/UWI #: 05-123-45088-00						
Field: WATTENBERG		City (SAP): LONGMONT		County/Parish: WELD		State: COLORADO					
Legal Description: SW SE-33-3N-68W-589FSL-1365FEL											
Contractor: NABORS DRLG				Rig/Platform Name/Num: NABORS X22							
Job BOM: 7523 7523											
Well Type: HORIZONTAL GAS											
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Jordan Larue							
Job											
Formation Name											
Formation Depth (MD)		Top		Bottom							
Form Type				BHST							
Job depth MD		13745ft		Job Depth TVD		7268					
Water Depth				Wk Ht Above Floor		4					
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	
Casing		9.625	8.921	36		J-55	0	2287	0	2287	
Casing		5.5	4.892	17	LTC	HCP110	0	13702	0	7268	
Open Hole Section			8.5				2287	13745	2287	7268	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	5.5	1	WF	13745		Top Plug	5.5	1	WF		
Float Shoe	5.5					Bottom Plug	5.5	1	WF		
Float Collar	5.5					SSR plug set	5.5		HES		
Insert Float	5.5	1	WF	13690		Plug Container	5.5	1	WF		
Stage Tool	5.5					Centralizers	5.5		HES		
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	40.2	6	
37.58 gal/bbl		FRESH WATER									
0.70 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)									
0.70 gal/bbl		MUSOL A, 330 GAL TOTE - (790828)									

88.91 lbm/bbl		BARITE, BULK (100003681)							
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
2	ElastiCem	ELASTICEM (TM) SYSTEM	700	sack	13.2	1.57	7.53	7	7.53
0.10 %		SUPER CBL, 50 LB PAIL (100003668)							
0.45 %		SCR-100 (100003749)							
7.53 Gal		FRESH WATER							
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
3	EconoCem	ECONOCEM (TM) SYSTEM	1110	sack	13.5	1.68	7.99	7	7.99
7.99 Gal		FRESH WATER							
0.30 %		HR-5, 50 LB SK (100005050)							
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
4	Biocide Water and MMCR	Biocide Water and MMCR	20	bbl	8.34		8.33	10	
0.50 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
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
5	Biocide Water	Biocide Water	298	bbl	8.34		8.33	8	
Cement Left In Pipe		Amount	0 ft		Reason			WET Shoe Joint	
Mix Water:		pH 7	Mix Water Chloride:		400 ppm		Mix Water Temperature:		58 °F
Cement Temperature:		## °F °C	Plug Displaced by:		8.33 lb/gal H2O		Disp. Temperature:		## °F °C
Plug Bumped?		Yes	Bump Pressure:		3000 PSI		Floats Held?		Yes 2BBLS BACK
SPACER Returns:		15 bbl	Returns Density:		10.5 lb/gal kg/m3		Returns Temperature:		## °F °C
Comment : FINAL CIRC PSI 2250... EST TOP OF LEAD CMT 1048'... TOP TAIL CMT 5608'									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Driv-Side Pump Pressure (psi)	Downhole Density (ppg)	Combined Pump Rate (bbl/min)	Pump Stage Total (bbl)	Comments
Event	1	Call Out	Call Out	1/26/2018	20:00:00	USER					REQUESTED LOCATION TIME 0300
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	1/27/2018	00:30:00	USER					RIG RUNNING PIPE
Event	3	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	1/27/2018	00:45:00	USER					GOT NUMBERS FROM CO MAN
Event	4	Comment	JOB CALS/WATER TEST	1/27/2018	00:50:00	USER					WATER TESTED GOOD SEE JSR... TD 13745', TVD 7268', TP 13702', WSS@ 13690', CS 5.5" 17# P110, PC 9.625" 36# J55 2287', WF 9.4# OBM
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	1/27/2018	01:00:00	USER					DISCUSS HAZARDS JSA
Event	6	Rig-Up Equipment	Rig-Up Equipment	1/27/2018	01:30:00	USER					NO ACCIDENTS OR INJURIES
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	1/27/2018	09:35:00	USER	58.00	0.00	0.00	0.0	REVIEW PUMP SCHEDULE, JSA AND RETURNS
Event	8	Start Job	Start Job	1/27/2018	09:39:59	COM10	18.00	0.00	0.00	0.0	START JOB
Event	9	Test Lines	Test Lines	1/27/2018	09:53:36	COM10	5462.00	8.30	0.00	15.2	5500 PSI TEST GOOD
Event	10	Pump Spacer 1	Pump Spacer 1	1/27/2018	09:55:41	COM10	35.00	8.44	0.00	15.2	60 BBLS SCALED @ 10.5#
Event	11	Drop Bottom Plug	Drop Bottom Plug	1/27/2018	10:10:47	COM10	185.00	10.97	0.70	69.3	DROP BOTTOM PLUG/ PLUG WENT
Event	12	Pump Lead Cement	Pump Lead Cement	1/27/2018	10:11:44	COM10	138.00	11.60	1.30	69.9	700 SKS SCALED @ 13.2#
Event	13	Pump Tail Cement	Pump Tail Cement	1/27/2018	10:35:55	COM10	523.00	12.99	7.60	183.0	1110 SKS SCALED @ 13.5#
Event	14	Clean Lines	Clean Lines	1/27/2018	11:21:07	COM10	12.00	19.73	0.00	333.2	WASH PUMP AND LINES

Event	15	Drop Top Plug	Drop Top Plug	1/27/2018	11:28:21	COM10	3.00	10.51	0.00	358.6	PLUG WENT
Event	16	Pump Displacement	Pump Displacement	1/27/2018	11:28:22	COM10	3.00	10.51	0.00	358.6	318 BBLS H2O BUMPED ON CALC. FINAL LIFT PSI @ 2250 PSI... 15BBLS SPACER BACK TO SURFACE...
Event	17	Bump Plug	Bump Plug	1/27/2018	12:14:50	COM10					3000 PSI FINAL BUMP PSI HELD FOR 2 MIN
Event	18	Other	Other	1/27/2018	12:17:09	COM10	2389.00	8.26	2.60	0.3	RUPTURE WSS PLUG @ 4500 PSI
Event	19	Other	Other	1/27/2018	12:18:23	COM10					PUMP 3BBLS WETSHOE PER DESIGN
Event	20	Other	Other	1/27/2018	12:31:16	COM10					HOLD PSI 2000PSI FOR 15MIN... CS TEST GOOD... CHECK FLOATS THEY HELD 2 BBLS BACK...
Event	21	End Job	End Job	1/27/2018	12:31:23	COM10					END JOB
Event	22	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	1/27/2018	12:45:00	USER					DISCUSS HAZARDS JSA
Event	23	Rig-Down Equipment	Rig-Down Equipment	1/27/2018	12:50:00	USER					NO ACCIDENTS OR INJURIES
Event	24	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	1/27/2018	14:00:00	USER					REVIEW DIRECTIONS
Event	25	Crew Leave Location	Crew Leave Location	1/27/2018	14:30:00	USER					HEADING TO FREDRICK 5MI AWAY FOR RESET

3.0 Attachments

3.1 Anadarko Newby State 16N-4HZ Production Job Chart

