

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3899042	Quote #: 0022545037	Sales Order #: 0905480668
Customer: ANADARKO PETROLEUM CORP-EBUS		Customer Rep: Leiv Kiliough	
Well Name: BAJA BERG		Well #: 35-9HZ	API/UWI #: 05-123-47569-00
Field: WATTENBERG	City (SAP): IONE	County/Parish: WELD	State: COLORADO
Legal Description: SE SW-35-2N-67W-1087FSL-2451FWL			
Contractor: PRECISION DRLG		Rig/Platform Name/Num: PRECISION 461	
Job BOM: 7522 7522			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Luke Kosakewich	

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	6510ft		Job Depth TVD
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
Casing		9.625	8.921	36		J-55	0	1889	0	1889
Casing		7	6.276	26	LTC	HCP110	0	6497		
Open Hole Section			8.5				1889	6510		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe					Top Plug	7	1	Weatherford
Float Shoe	7	1		6497	Bottom Plug	7	1	Weatherford
Float Collar	7	1		6453	SSR plug set			
Insert Float					Plug Container	7	1	HES
Stage Tool					Centralizers		101	

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	40	bbl	10.5	6.18		4		

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	Gasstop B1	GASSTOP (TM) SYSTEM	350	sack	13.2	1.55		6	7.62
3	Displacement Fluid	Displacement Fluid	246.5	bbl	9.5			8	
Cement Left In Pipe		Amount	44 ft		Reason			Shoe Joint	
Mix Water:		pH 7	Mix Water Chloride: 230 < ppm		Mix Water Temperature:			61 °F	
Plug Bumped?		Yes	Bump Pressure: 1,900 psi		Floats Held?			Yes	
<p>Comment There were full returns throughout the job. Bumped the plug 500 psi. over 1,400 psi. at 2.5 bpm. Final pressure was 2,700 psi. Pressured up to 3,000 psi. for a 15 minute casing test. Pressure held. Bled off pressure to check floats. Floats held. Got 2.5 bbls. of fluid back to the truck. Circulated no spacer or cement to surface. Estimated tops of cement based on pressures and volumes are TOT is 2,296' and TOS 852'.</p>									

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	2/11/2019	17:00:00	USER	Crew was called out at 15:00 for a time of 20:00.
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	2/11/2019	22:00:00	USER	Crew held a pre journey safety meeting and JSA.
Event	3	Depart Shop for Location	Depart Shop for Location	2/11/2019	22:10:00	USER	Started journey management with dispatch and left location.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	2/11/2019	22:30:00	USER	Crew performed a site assessment, safety meeting and hazard hunt on location. Checked in with the customer and discussed the job procedures, rig up and well bore schematics. The rig was running casing.
Event	5	Other	Other	2/11/2019	22:35:50	USER	Well bore: MD: 6,510', TP: 7" 26# set at 6,496.51', FC: 6,453.27', SC: 9.625" 36 # set at 1,889', OH: 8.5", Centralizers: 101 , Mud # 9 ppg. Water test: PH: 7, Chlorides: 0, Temp: 61 Degrees.
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	2/11/2019	22:40:00	USER	Held a pre rig up safety meeting with my crew.
Event	7	Rig-Up Equipment	Rig-Up Equipment	2/11/2019	22:50:00	USER	The crew rigged up all lines, hoses and equipment for the job.
Event	8	Other	Other	2/12/2019	01:30:00	USER	Began mixing up latex water for cement.
Event	9	Safety Meeting	Safety Meeting	2/12/2019	02:00:00	USER	Halliburton cement crew held a pre cement job safety meeting and JSA with third party personnel and rig crew.
Event	10	Prime Pumps	Prime Pumps	2/12/2019	02:20:13	COM5	Began priming up pumps.
Event	11	Start Job	Start Job	2/12/2019	02:29:35	COM5	Pumped 2 bbls. of fresh water at 3 bpm. to fill lines.
Event	12	Test Lines	Test Lines	2/12/2019	02:32:04	COM5	Pressure tested lines to 4,900 psi. with a 500

							psi. electronic kick out test.
Event	13	Pump Spacer 1	Pump Spacer 1	2/12/2019	02:43:00	COM5	Pumped 40 bbls. of Tuned Spacer III with surfactants and Biocide mixed at 10.5 ppg., Yield: 6.18 ft3/sks, 39.7 gal/sks. Density was verified by pressurized scales.
Event	14	Drop Bottom Plug	Drop Bottom Plug	2/12/2019	02:59:45	COM5	Dropped the bottom plug, which was witnessed by the customer.
Event	15	Pump Cement	Pump Cement	2/12/2019	03:01:39	COM5	Pumped 96.6 bbls. (350 sks.) of Gasstop B1 mixed at 13.2 ppg., Yield: 1.55 ft3/sks, 7.62 gal/sks. Density was verified by pressurized scales.
Event	16	Shutdown	Shutdown	2/12/2019	03:22:40	COM5	Shutdown and washed pumps and lines with 10 bbls. of fresh water on top of the plug.
Event	17	Drop Top Plug	Drop Top Plug	2/12/2019	03:25:52	COM5	Halliburton dropped the top plug, which was witnessed by the customer.
Event	18	Pump Displacement	Pump Displacement	2/12/2019	03:26:29	COM5	.Halliburton pumped the first 10 bbls. of displacement with fresh water.
Event	19	Pump Well Fluid	Pump Well Fluid	2/12/2019	03:31:15	USER	The rig took over the rest of displacement and pumped 236.5 of Oil Based Mud to place cement.
Event	20	Bump Plug	Bump Plug	2/12/2019	04:09:43	COM5	Bumped the plug 500 psi. over 1,400 psi. at 2.5 bpm. Final pressure was 1,900 psi.
Event	21	Pressure Up	Pressure up	2/12/2019	04:13:00	COM5	Pressured up to 3,000 psi. for a 15 minute casing test. Pressure held.
Event	22	Check Floats	Check Floats	2/12/2019	04:29:00	USER	Bled off pressure to check floats. Floats held. There was 2.5 bbls. of fluid that came back to the truck. Estimated top of cement based on pressures and volumes is TOC is 2,296' and TOS 852'.
Event	23	End Job	End Job	2/12/2019	04:31:00	COM5	Blew down all lines until all pump and lines are dry and clean.
Event	24	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	2/12/2019	04:35:00	USER	Halliburton cement crew held a pre rig down safety meeting and JSA.

Event	25	Rig-Down Equipment	Rig-Down Equipment	2/12/2019	04:40:00	USER	Rigged down all lines, hoses and equipment.
Event	26	Safety Meeting - Departing Location	Safety Meeting - Departing Location	2/12/2019	05:30:00	USER	Held a pre journey safety meeting with crew.
Event	27	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	2/12/2019	05:45:00	USER	Started journey management with dispatch and left location.

3.0 Attachments

3.1 Job Chart

