

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3863252	Quote #: 0022473913	Sales Order #: 0905044719
Customer: ANADARKO PETROLEUM CORP-EBUS		Customer Rep: Jeremy	
Well Name: GRACIE		Well #: 24-3HZ	API/UWI #: 05-123-46435-00
Field: WATTENBERG	City (SAP): IONE	County/Parish: WELD	State: COLORADO
Legal Description: SE SW-24-2N-66W-345FSL-1625FWL			
Contractor: PRECISION DRLG		Rig/Platform Name/Num: PRECISION 461	
Job BOM: 7523 7523			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Prince Perez	

Job

Formation Depth (MD)	Top	0	Bottom	12,880'
Job depth MD	12,867.87'		Job Depth TVD	
			Wk Ht Above Floor	5'

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	1898	0	1898
Casing		5.5	4.892	17	LTC	HCP110	0	12868	0	7550
Open Hole Section			7.875				1898	12880	1898	7550

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	5.5	1		12,868	Top Plug	5.5	1	WF
Float Shoe	5.5	1			Bottom Plug	5.5	1	WF
Float Collar	5.5	1		12,859.2				
					Plug Container	5.5	1	HES
					Centralizers	5.5	252	ODM

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	Spacer	Tuned Spacer III	60	bbl	10.5	6.96	44.4	4	2,149	

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	Lead	GASSTOP (TM) SYSTEM	630	sack	13.2	1.59	7.83	8	4,933
3	Tail	ECONOCEM (TM) SYSTEM	530	sack	13.5	1.68	7.99	8	4,235
4	Displacement	Biocide Water and MMCR	20	bbl	8.				
5	Displacement	Biocide and Fresh Water	278	bbl	8.34			8	
Cement Left In Pipe									
Amount		0 ft			Reason			Wet Shoe	
Mix Water: pH 8		Mix Water Chloride: 0 ppm			Mix Water Temperature: 74 °F				
Cement Temperature: ## °F		Plug Displaced by: 8.34 lb/gal			Disp. Temperature: ## °F				
Plug Bumped? Yes		Bump Pressure: 2,540 psi			Floats Held? Yes				
Cement Returns: 0 bbl		Returns Density: ## lb/gal			Returns Temperature: ## °F				
Comment									
Pumped 60 bbls of Tuned Spacer III with 40 gallons each of Dual B and Musol. Pumped 178.4 bbls of Gasstop cement with 1,575 gallons of Latex. Pumped 158.58 bbls of Econocem. Pumped 298 bbls of Freshwater displacement with biocide. No spacer back. 2 bbls back on the floats.									

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	8/5/2018	05:30:00	USER	CREW CALLED OUT AT 5:30, REQUESTED ON LOCATION 11:00. CREW PICKED UP CEMENT, CHEMICALS, AND PLUG CONTAINER FROM FT. LUPTON, CO. BULK 660 10867439, AND PUMP 11189145.
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	8/5/2018	09:40:00	USER	CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Shop	Crew Leave Shop	8/5/2018	09:50:00	USER	STARTED JOURNEY MANAGEMENT.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	8/5/2018	10:30:00	USER	END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 9.625" 36 LB/FT @ 1,898', 5.5" CASING: 17 LB/FT TOTAL 12,867.87', 7.875 HOLE, TD 12,880', 8.67' SHOE TRAC, TVD- 7,550'. PUMP FRESH WATER DISPLACEMENT. CASING LANDED @ 12:00 08/5/2018.
Event	5	Safety Meeting - Assessment of Location	Safety Meeting - Assessment of Location	8/5/2018	10:40:00	USER	HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP AND WEATHER.
Event	6	Rig-Up Equipment	Rig-Up Equipment	8/5/2018	10:50:00	USER	RIG UP BULK AND MIXING EQUIPMENT.
Event	7	Rig-Up Completed	Rig-Up Completed	8/5/2018	13:20:00	USER	
Event	8	Pre-Job Safety Meeting	Pre-Job Safety Meeting	8/5/2018	13:30:00	USER	MEETING WITH HALLIBURTON AND RIG PERSONNEL. COMMUNICATED POTENTIAL SAFETY HAZARDS AND JOB DETAILS.
Event	9	Start Job	Start Job	8/5/2018	13:48:47	COM4	BEGIN RECORDING JOB DATA.
Event	10	Test Lines	Test Lines	8/5/2018	13:53:55	COM4	PRESSURE TESTED IRON TO 6,500 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @

							838 PSI, 5TH GEAR STALL OUT @ 1,947 PSI. 6,500 PRESSURE TEST KICKED OUT @ 7,068 PSI
Event	11	Pump Spacer	Pump Spacer	8/5/2018	14:10:18	USER	PUMP 60 BBLS OF TUNED SPACER III @ 10.5 LB/GAL, 6.96 CUFT/SK, 44.4 GALL/SK. 20 GALS D-AIR, 40 GALS DUAL B, 40 GALS OF MUSOL A. HOS CALCULATED @ 1,277.3 TOS CALCULATED @ 685.1'. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 6 BBLS/MIN @ 225 PSI.
Event	12	Pump Lead Cement	Pump Lead Cement	8/5/2018	14:31:34	COM4	PUMPED 630 SKS OF GASSTOP @ 13.2 LB/GAL, 1.59 FT3/SK, 7.83 GAL/SK. 178.4 BBLS, HOL CALCULATED @ 5,773.5', TOL CALCULATED @ 1,962.4'. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 8 BBLS/MIN @ 540 PSI
Event	13	Pump Tail Cement	Pump Tail Cement	8/5/2018	14:57:56	COM4	PUMP 530 SKS OF ECONOCEM @ 13.5 LB/GAL, 1.68 FT3/SK, 7.99 GAL/SK, 158.58 BBLS. HOT CALCULATED @ 5,132', TOT CALCULATED @ 7,735.9'. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 8 BBLS/MIN @ 610 PSI.
Event	14	Clean Lines	Clean Lines	8/5/2018	15:17:31	COM4	
Event	15	Drop Top Plug	Drop Top Plug	8/5/2018	15:28:58	COM4	PLUG LEFT CONTAINER, VERIFIED BY CO. MAN.
Event	16	Pump Displacement	Pump Displacement	8/5/2018	15:29:41	COM4	BEGIN CALCULATED DISPLACEMENT OF 298 BBLS WITH FRESH WATER. PUMP RATE 8 BPM @ 2,600 PSI
Event	17	Bump Plug	Bump Plug	8/5/2018	16:11:49	COM4	PLUG BUMPED AT CALCULATED DISPLACEMENT. 2,340 PSI PRESSURED 500 PSI OVER BUMP.
Event	18	Shut-In Pressure @ 15 Minutes	Shut-In Pressure @ 15 Minutes	8/5/2018	16:12:08	USER	
Event	19	Shift Tool - Lower	Shift Tool - Lower	8/5/2018	16:27:25	USER	STARTED PUMPING @ 2BPM. TOOL SHEARED @ 4,610 PSI. PUMPED 3 BBLS WET SHOE.

Event	20	Check Floats	Check Floats	8/5/2018	16:29:08	USER	RELEASED PRESSURE, FLOATS HELD, 2 BBLS BACK.
Event	21	End Job	End Job	8/5/2018	16:29:50	COM4	STOP RECORDING JOB DATA.
Event	22	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	8/5/2018	16:35:00	USER	DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	23	Rig-Down Equipment	Rig-Down Equipment	8/5/2018	16:45:00	USER	RIG DOWN BULK AND MIXING EQUIPMENT.
Event	24	Rig-Down Completed	Rig-Down Completed	8/5/2018	18:00:00	USER	
Event	25	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	8/5/2018	18:10:00	USER	CREW DISCUSSED ROUTES HAZARDS AND COMMUNICATION WITH CREW.
Event	26	Crew Leave Location	Crew Leave Location	8/5/2018	18:30:00	USER	THANK YOU FOR USING HALLIBURTON – PRINCE PEREZ AND CREW.

3.0 Attachments

3.1 Job Chart

