

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3959505		Quote #: 0022622424		Sales Order #: 0905950593				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: ANADARKO REP						
Well Name: SARCHET			Well #: 21-4HZ			API/UWI #: 05-123-50076-00				
Field: WATTENBERG		City (SAP): PLATTEVILLE		County/Parish: WELD		State: COLORADO				
Legal Description: SW SW-21-3N-66W-595FSL-340FWL										
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 464						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Kyle Bath						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		18372ft		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	1863	0	1863
Casing		5.5	4.892	17	LTC	HCP110	0	18372	0	7300
Open Hole Section			7.875				1863	18372	0	7300
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5			18372		Top Plug	5.5		HES	
Float Shoe	5.5					Bottom Plug	5.5		HES	
Float Collar	5.5					SSR plug set	5.5		HES	
Insert Float	5.5					Plug Container	5.5		HES	
Stage Tool	5.5					Centralizers	5.5		HES	
Fluid Data										
Stage/Plug #: 1										

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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	FDP-C1337-18	SBM FDP-C1337-18 CEMENT SPACER SYS	60	bbl	10.5	6.17			
	0.75 gal/bbl	MUSOL(R) A, 5 GAL PAIL (100064220)							
	90.94 lbm/bbl	BARITE, BULK (100003681)							
	0.75 gal/bbl	DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)							
	0.25 gal/bbl	D-AIR 3000L, 5 GAL PAIL (101007444)							
	1 lbm/bbl	FE-2 (100001615)							
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	FDP-C1337-18 (No Surfactants)	SBM FDP-C1337-18 CEMENT SPACER SYS	55	bbl	10.5	6.19			
	90.63 lbm/bbl	BARITE, BULK (100003681)							
	0.25 gal/bbl	D-AIR 3000L, 5 GAL PAIL (101007444)							
	1 lbm/bbl	FE-2 (100001615)							
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	Gasstop B1	GASSTOP (TM) SYSTEM	640	sack	13.2	1.56		8	7.74
	0.50 %	SCR-100 (100003749)							
	5.24 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
4	EconoCem	ECONOCER (TM) SYSTEM	1110	sack	13.5	1.69		8	8.07
	0.10 %	SA-1015, 50 LB SACK (102077046)							
	7.99 Gal	FRESH WATER							
	0.40 %	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
5	Biocide Water and MMCR	Biocide Water and MMCR	20	bbl	8.34				
	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
6	Biocide Water	Biocide Water	406	bbl	8.34				

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Cement Left In Pipe	Amount	0 ft	Reason	Wet Shoe	
Mix Water:	pH 7	Mix Water Chloride:	0 ppm	Mix Water Temperature:	77 °F
Cement Temperature:	## °F °C	Plug Displaced by:	8.4 lb/gal	Disp. Temperature:	77 °F
Plug Bumped?	Yes	Bump Pressure:	2440 psi	Floats Held?	Yes/No
Cement Returns:	0 bbl	Returns Density:	## lb/gal kg/m3	Returns Temperature:	## °F °C
Comment Received 23 bbls spacer to surface					

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Comments
Event	1	Start Job	9/6/2019	17:30:00	CREW CALLED OUT, REQUESTED ON LOCATION AT 23:30
Event	2	Depart Yard Safety Meeting	9/6/2019	21:45:00	DISCUSS ROUTE AND HAZARDS
Event	3	Crew Leave Yard	9/6/2019	22:00:00	CREW DEPART YARD
Event	4	Arrive at Location from Service Center	9/6/2019	22:30:00	ARRIVE ON LOCATION, RIG RUNNING CASING UPON HES ARRIVAL, RECIEVED NUMBERS FROM CO REP, TD 18385, TP 18372.3, SJ 17.5, CSG 5.5" 17#, PREV CSG 9 5/8 @ 1863, HOLE 7 7/8, MUD 9.4
Event	5	Assessment Of Location Safety Meeting	9/6/2019	22:45:00	DISCUSS LOCATION HAZARDS AND HOW TO MITIGATE THEM, WATER TEST TEMP 77, CHLORIDES 0 PH 7
Event	6	Safety Meeting - Pre Rig-Up	9/6/2019	22:55:00	DISCUSS HAZARDS AND WAYS TO MITIGATE THEM
Event	7	Safety Meeting - Pre Job	9/7/2019	02:30:00	PRE JOB SAFETY MEETING WITH RIG CREW AND CO REP, RIG CIRCULATE 8.5 BPM, 1100 PSI, 13000 STRKS, 450 ON PASON GAS
Event	8	Start Job	9/7/2019	02:43:11	
Event	9	Test Lines	9/7/2019	02:45:09	TEST LINES TO 6800 PSI

Event	10	Pump Spacer 1	9/7/2019	02:49:50	PUMP 60 BBLS TUNED SPACER 10.5 PPG WITH SURFACTANTS 6 BPM 630 PSI, CALCULATED TOS SURFACE
Event	11	Pump Spacer 2	9/7/2019	03:01:23	PUMP 55 BBLS TUNED SPACER 10.5 PPG W/OUT SURFACTANTS 6 BPM 580 PSI
Event	12	Drop Bottom Plug	9/7/2019	03:06:59	LAUNCH BOTTOM PLUG, CO REP WITNESSED
Event	13	Pump Lead Cement	9/7/2019	03:07:56	MIX AND PUMP 640 SKS 177 BBLS LEAD CEMENT 13.2 PPG, 1.56 FT3/SK, 7.61 GAL/SK WITH LATEX, 8 BPM 1030 PSI, CALCULATED TOLC 1825
Event	14	Pump Tail Cement	9/7/2019	03:31:03	MIX AND PUMP 1110 SKS 334 BBLS TAIL CEMENT 13.5 PPG, 1.69 FT3/SK, 8.07 GAL/SK, 8 BPM 670 PSI, CALCULATED TOTC 7560
Event	15	Shutdown	9/7/2019	04:21:49	
Event	16	Clean Lines	9/7/2019	04:23:50	BLOW LINES BACK TO HALF ROUND AND WASH PUMPS AND LINES
Event	17	Drop Top Plug	9/7/2019	04:30:31	LAUNCH TOP PLUG, CO REP WITNESSED
Event	18	Pump Displacement	9/7/2019	04:30:35	PUMP 426 BBLS FRESH WATER DISPLACEMENT, FIRST 20 W/MMCR, ALL WITH BIOCIDES, 10 BPM 2800 PSI, RECEIVED 23 BBLS TUNED SPACER TO SURFACE

Event	19	Bump Plug	9/7/2019	05:29:28	BUMP PLUG AT 2440 PSI TOOK TO 3000 PSI, HOLD FOR 15 MINUTES
Event	20	Pressure Up Well	9/7/2019	05:41:48	RUPTURE WET SHOE, BURST AT 4900 PSI, PUMP 3 BBL WET SHOE
Event	21	Check Floats	9/7/2019	05:43:43	FLOATS HELD TOOK 3 BBL BACK
Event	22	End Job	9/7/2019	05:46:14	
Event	23	Safety Meeting - Pre Rig-Down	9/7/2019	05:50:00	DISCUSS HAZARDS AND WAYS TO MITIGATE THEM
Event	24	Depart Location Safety Meeting	9/7/2019	07:20:00	DISCUSS HAZARDS AND ROUTE
Event	25	Crew Leave Location	9/7/2019	07:50:00	THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW

3.0 Attachments

3.1 JOB CHART.png

