

The Road to Excellence Starts with Safety

Sold To #: 300466	Ship To #: 3959397	Quote #: 0022624730	Sales Order #: 0905962889
Customer: ANADARKO PETROLEUM CORP-EBUS		Customer Rep: ANADARKO REP	
Well Name: SARCHET		Well #: 21-3HZ	API/UWI #: 05-123-50071-00
Field: WATTENBERG	City (SAP): PLATTEVILLE	County/Parish: WELD	State: COLORADO
Legal Description: SW SW-21-3N-66W-610FSL-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	12993ft	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	1852	0	0
Casing		5.5	4.892	17	LTC	HCP110	0	12983	0	0
Open Hole Section			7.875				1852	12993	0	0

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	5.5			12983	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										
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 Prime	TUNED PRIME CEMENT SPACER SYS	60	bbl	10.5	6.17				
90.94 lbm/bbl		BARITE, BULK (100003681)								
0.75 gal/bbl		MUSOL(R) A, 5 GAL PAIL (100064220)								

0.25 gal/bbl		D-AIR 3000L, 5 GAL PAIL (101007444)							
0.75 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)							
1 lbm/bbl		FE-2, 2000 LB BAG - (1005549)							
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	Tuned Prime (No Surfactants)	TUNED PRIME 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, 2000 LB BAG - (1005549)							
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		6	7.73
5.23 Gal		FRESH WATER							
0.45 %		SCR-100, 2000 LB BAG - (1005967)							
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	ECONOCEM (TM) SYSTEM	540	sack	13.5	1.69		6	8.07
0.10 %		SA-1015, 50 LB SACK (102077046)							
8 Gal		FRESH WATER							
0.37 %		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	281	bbl	8.34				
Cement Left In Pipe	Amount	5 ft			Reason	Shoe Joint			

Mix Water:	pH 7	Mix Water Chloride:	0 ppm	Mix Water Temperature:	66 °F
Cement Temperature:	## °F °C	Plug Displaced by:	8.4 lb/gal	Disp. Temperature:	66 °F
Plug Bumped?	Yes	Bump Pressure:	2000 psi	Floats Held?	Yes
Cement Returns:	0 bbl	Returns Density:	## lb/gal kg/m3	Returns Temperature:	## °F °C
Comment 15 bbls spacer to surface					

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Date	Time	Comments
Event	1	Drop Bottom Plug	9/9/2019	22:30:00	CREW CALLED OUT, REQUESTED ON LOCATION 4:30
Event	2	Depart Yard Safety Meeting	9/10/2019	01:45:00	DISCUSS ROUTE AND HAZARDS
Event	3	Crew Leave Yard	9/10/2019	02:00:00	CREW DEPART YARD
Event	4	Arrive at Location from Service Center	9/10/2019	02:45:00	ARRIVE ON LOCATION, RIG RUNNING CASING UPON HES ARRIVAL
Event	5	Assessment Of Location Safety Meeting	9/10/2019	03:00:00	DISCUSS LOCATION HAZARDS AND HOW TO MITIGATE THEM, WATER TEST TEMP 66, CHLORIDES 0, PH 7
Event	6	Safety Meeting - Pre Rig-Up	9/10/2019	03:15:00	DISCUSS HAZARDS AND WAYS TO MITIGATE THEM
Event	7	Safety Meeting - Pre Job	9/10/2019	05:45:00	PRE JOB SAFETY MEETING WITH RIG CREW AND CO REP, RIG CIRCULATE 8.5 BPM 1030 PSI
Event	8	Start Job	9/10/2019	05:59:21	START RECORDING DATA
Event	9	Test Lines	9/10/2019	06:05:01	TEST LINES TO 6800 PSI
Event	10	Pump Spacer 1	9/10/2019	06:23:00	PUMP 60 BBLs TUNED SPACER 10.5 PPG WITH SURFACTANTS 6 BPM 530 PSI, CALCULATED TOS SURFACE

Event	11	Pump Spacer 2	9/10/2019	06:35:02	PUMP 55 BBLS TUNED SPACER WITHOUT SURFACTANTS 10.5 PPG, 6 BPM 445 PSI
Event	12	Drop Bottom Plug	9/10/2019	06:45:44	LAUNCH BOTTOM PLUG
Event	13	Pump Lead Cement	9/10/2019	06:47:38	MIX AND PUMP 640 SKS 177 BBLS LEAD CEMENT 13.2 PPG, 1.56 FT3/SK, 7.61 GAL/SK 8 BPM 600 PSI, CALCULATED TOLC 1995
Event	14	Check Weight	9/10/2019	06:51:12	VERIFY WEIGHT
Event	15	Pump Tail Cement	9/10/2019	07:11:17	PUMP 540 SKS 163 BBLS TAIL CEMENT 13.5 PPG, 1.69 FT3/SK, 8.08 GAL/SK 8 BPM 580 PSI, CALCULATED TOTC 7724
Event	16	Check Weight	9/10/2019	07:12:36	VERIFY WEIGHT
Event	17	Drop Top Plug	9/10/2019	07:49:22	LAUNCH TOP PLUG
Event	18	Pump Displacement	9/10/2019	07:49:25	PUMP 301 BBLS FRESH WATER DISPLACEMENT, FIRST 20 BBLS W/MMCR, ALL WITH BIOCIDES, 10 BPM 2800 PSI, RECEIVED 15 BBLS SPACER TO SURFACE
Event	19	Bump Plug	9/10/2019	08:32:39	BUMP PLUG AT 2100 PSI TOOK TO 3090 PSI, HELD PRESSURE FOR 15 MINUTES
Event	20	Pressure Up	9/10/2019	08:48:34	PRESSURE UP TO BURST WET SHOE, WENT AT 4940 PSI, PUMPED 3 BBL WET SHOE
Event	21	Check Floats	9/10/2019	08:49:39	FLOATS HELD TOOK 2 BBLS BACK
Event	22	End Job	9/10/2019	08:53:14	

Event	23	Safety Meeting - Pre Rig-Down	9/10/2019	09:00:00	DISCUSS HAZARDS AND WAYS TO MITIGATE THEM
Event	24	Depart Location Safety Meeting	9/10/2019	10:50:00	DISCUSS HAZARDS AND ROUTE
Event	25	Crew Leave Location	9/10/2019	11:10:00	THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW

3.0 Attachments

3.1 Case 1-Custom Results.png

