

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3904612		Quote #: 0022550703		Sales Order #: 0905509959				
Customer: ANADARKO PETROLEUM CORP-EBUS				Customer Rep: LUKE RAINS						
Well Name: REESE			Well #: 21-3HZ			API/UWI #: 05-123-47873-00				
Field: WATTENBERG		City (SAP): FIRESTONE		County/Parish: WELD		State: COLORADO				
Legal Description: SW NW-21-2N-67W-2065FNL-322FWL										
Contractor: PRECISION DRLG				Rig/Platform Name/Num: PRECISION 464						
Job BOM: 7523 7523										
Well Type: HORIZONTAL GAS										
Sales Person: HALAMERICA\HX41066				Srv Supervisor: Vitali Neverdasov						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		15727ft		Job Depth TVD		7419				
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	1860	0	1830
Casing	0	5.5	4.892	17	LTC	HCP110	0	15747	0	7419
Open Hole Section			7.875				1860	15757	1830	7419
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	5.5					Top Plug	5.5	1	WHED	
Float Shoe	5.5	1	n/a	15747		Bottom Plug	5.5	1	WHED	
Float Collar	5.5	1	n/a	15716		SSR plug set	5.5			
Insert Float	5.5					Plug Container	5.5	1	HES	
Stage Tool	5.5					Centralizers	5.5			
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	FDP-C1337-18	FDP-C1337-18	80	bbl	10.5			4		
0.75 gal/bbl		DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665)								
91.40 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)							
37 lbm/bbl		FDP-C1337-18, BULK - (1093937)							
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	Gasstop B1	GASSTOP (TM) SYSTEM	640	sack	13.2	1.574		6.5	7.71
0.90 %		SCR-100 (100003749)							
5.11 Gal		FRESH WATER							
0.10 Gal		D-AIR 3000L, TOTETANK (101396181)							
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	840	sack	13.5	1.68		6.5	7.99
0.10 %		SA-1015, 50 LB SACK (102077046)							
8 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	
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	344	bbl	8.34			8	
Cement Left In Pipe		Amount	0 ft		Reason			SHOE	
Comment : ESTIMATED TOP OF SPACER @ 139'. TOP OF LEAD @ 1809'. TOP OF TAIL @ 7594'.									

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	2/25/2019	23:00:00	USER	For Location @ 05:00
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	2/26/2019	04:45:00	USER	Journey management meeting held prior to departure
Event	3	Depart from Service Center or Other Site	Depart from Service Center or Other Site	2/26/2019	05:05:00	USER	Called Journey
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	2/26/2019	05:25:00	USER	12 MILES. Discussed numbers and job procedures with Customer. Rig is running casing.
Event	5	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	2/26/2019	05:55:00	USER	JSA to discuss the hazards of rig-up
Event	6	Rig-Up Equipment	Rig-Up Equipment	2/26/2019	06:00:00	USER	Rig-up all surface lines and equipment up to the Buffer zone
Event	7	Casing on Bottom	Casing on Bottom	2/26/2019	08:05:00	USER	CASING LANDED
Event	8	Circulate Well	Circulate Well	2/26/2019	08:20:00	USER	RIG UP PLUG CONTAINER AND MANIFOLD FOR RIG TO CIRCULATE
Event	9	Pre-Job Safety Meeting	Pre-Job Safety Meeting	2/26/2019	10:15:00	USER	With all essential personnel, to discuss the hazards of pumping the job, and pump schedule.
Event	10	Check Weight	Check Weight	2/26/2019	10:51:36	COM4	
Event	11	Start Job	Start Job	2/26/2019	10:58:03	COM4	
Event	12	Test Lines	Test Lines	2/26/2019	11:01:00	USER	Load line with 2 bbls of water. Test lines @ 6570 psi
Event	13	Pump Spacer	Pump Spacer	2/26/2019	11:08:00	USER	BATCH/ WEIGHT/ PUMP 80 BBLS OF SPACER WITH SURFACTANS @ 10.5 PPG.

Event	14	Drop Bottom Plug	Drop Bottom Plug	2/26/2019	11:30:00	USER	Pre-loaded bottom plug in plug container, verified by customer rep
Event	15	Check Weight	Check Weight	2/26/2019	11:31:09	COM4	
Event	16	Pump Lead Cement	Pump Lead Cement	2/26/2019	11:34:00	USER	BATCH/ WEIGH/ PUMP 640 SKS (179 BBLS) OF GASSTOP CEMENT USING LATEX WATER @ 13.2 ppg, verified with pressurized scales
Event	17	Pump Tail Cement	Pump Tail Cement	2/26/2019	12:05:00	USER	WEIGHT/ PUMP 840 SKS (251.3 BBLS) OF ECONOCEM @ 13.5 ppg, verified with pressurized scales.
Event	18	Check Weight	Check Weight	2/26/2019	12:08:24	COM4	
Event	19	Check Weight	Check Weight	2/26/2019	12:10:13	COM4	
Event	20	Shutdown	Shutdown	2/26/2019	12:49:00	USER	Finished pumping cement
Event	21	Clean Lines	Clean Lines	2/26/2019	12:52:00	USER	Wash pumps and lines
Event	22	Drop Top Plug	Drop Top Plug	2/26/2019	13:00:00	USER	Pre-loaded top plug in plug container verified by customer rep.
Event	23	Pump Displacement - Start	Pump Displacement - Start	2/26/2019	13:02:00	USER	364.6 BBLS OF FRESH WATER. FIRST 20 BBLS WITH MMCR. REMAINING WITH BIOCID. LAST 100 BBLS FRESH WATER
Event	24	Bump Plug	Bump Plug	2/26/2019	13:56:00	USER	@500 psi over final circulating pressure of 2285 psi. PER CUSTOMER HOLD 3000 PSI CASING TEST FOR 10 MIN.
Event	25	Pump Water	Pump Water	2/26/2019	14:08:00	USER	Open wet shoe sub @ 4680 psi, and pump 3 bbls wet shoe
Event	26	Check Floats	Check Floats	2/26/2019	14:12:00	USER	Floats held. 2 bbls back

Event	27	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	2/26/2019	14:17:00	USER	JSA to discuss the hazards of rig-down
Event	28	End Job	End Job	2/26/2019	14:22:46	COM4	

3.0 Attachments

3.1 Job Chart

