

The Road to Excellence Starts with Safety

Sold To #: 300466		Ship To #: 3794514		Quote #: 0022346093		Sales Order #: 0904267433					
Customer: ANADARKO PETROLEUM CORP-EBUS					Customer Rep: Albert Bryan						
Well Name: RW			Well #: 35N-32HZ			API/UWI #: 05-123-44615-00					
Field: WATTNEBERG		City (SAP): HUDSON		County/Parish: WELD			State: COLORADO				
Legal Description: SE SW-29-3N-65W-441FSL-1764FWL											
Contractor: Xtreme					Rig/Platform Name/Num: Xtreme 22						
Job BOM: 7523 7523											
Well Type: HORIZONTAL GAS											
Sales Person: HALAMERICA\HX41066					Srvc Supervisor: Vaughn Oteri						
Job											
Formation Name											
Formation Depth (MD)		Top			Bottom						
Form Type					BHST						
Job depth MD		12872ft			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	1861	0	1861	
Casing		5.5	4.778	20	LTC	HCP110	0	12932	0	7130	
Open Hole Section			7.875				1861	12942	1861	7130	
Tools and Accessories											
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make		
Guide Shoe	5.5					Top Plug	5.5	1	Weatherford		
Float Shoe	5.5			12862		Bottom Plug	5.5	1	Weatherford		
Float Collar	5.5			12815		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	Tuned Spacer III	Tuned Spacer III			60	bbl	10.5	6.25		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	ElastiCem - Cap Cement	ELASTICEM (TM) SYSTEM	150	sack	13.2	1.57		8	7.52
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
3	ElastiCem Lead	ELASTICEM (TM) SYSTEM	395	sack	13.2	1.57		8	7.54
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
4	EconoCem Tail	ECONOCEM (TM) SYSTEM	755	sack	13.5	1.68		8	7.99
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
5	Biocide Water and MMCR	Biocide Water and MMCR	20	bbl	8.34			8	
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
6	Biocide Water	Biocide Water	263	bbl	8.34				

Cement Left In Pipe	Amount	47 ft	Reason				Shoe Joint			

Comment 8bbl of spacer back to surface,HOTC=7277 TOTC=5584 TOLC=1082

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press (psi)	DH Density (ppg)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	8/30/2017	13:00:00	USER				Call from ARC hub
Event	2	Arrive At Loc	Arrive At Loc	8/30/2017	18:30:00	USER				Arrived on ocation mwt with company rep to discuss job process and concerns
Event	3	Other	Other	8/30/2017	18:30:30	USER				TD-12872 TP-12862 FC-12815 Surf-1861 Mud-9.5ppg Casing 5.5 20# OH-7.825
Event	4	Start Job	Start Job	8/30/2017	21:55:45	COM4	15.00	8.48	0.80	Pumped 3 bbls. of fresh water to fill lines.
Event	5	Test Lines	Test Lines	8/30/2017	21:59:40	COM4	119.00	8.49	0.00	Pressure tested lines to 5,000 psi. with a 500 psi. EKO test.
Event	6	Pump Spacer 1	Pump Spacer 1	8/30/2017	22:05:43	COM4	71.00	8.48	0.00	Pumped 60 bbls. of Tuned Spacer III with surfactants mixed at 10.5 ppg. Density was verified by pressurized scales.
Event	7	Drop Bottom Plug	Drop Bottom Plug	8/30/2017	22:20:22	COM4	90.00	11.28	0.00	Released the bottom plug.
Event	8	Pump Lead Cement	Pump Lead Cement	8/30/2017	22:24:26	COM4	55.00	10.79	3.60	Pumped 152 bbls. (545 sks.) y-1.57 G/sk7.52 of Elasticem mixed at 13.2 ppg.
Event	9	Pump Tail Cement	Pump Tail Cement	8/30/2017	22:46:29	COM4	469.00	13.82	8.10	Pumped 225 bbls. (755 sks.) y-1.68 g/sk7.99 mixed at 13.5 ppg.
Event	10	Shutdown	Shutdown	8/30/2017	23:15:10	COM4	19.00	16.42	0.00	Rig blew down the iron to the wash up pit.

Event	11	Clean Lines	Clean Lines	8/30/2017	23:15:20	COM4	18.00	16.53	0.00	Washed pumps and lines until clean.
Event	12	Drop Top Plug	Drop Top Plug	8/30/2017	23:15:25	COM4	18.00	16.56	0.00	Released the top plug.
Event	13	Pump Displacement	Pump Displacement	8/30/2017	23:25:56	COM4	16.00	8.17	0.00	Pumped 284 bbls. of fresh water with MMCR in the first 20 bbls. and Biocide throughout the rest of displacement.
Event	14	Bump Plug	Bump Plug	8/31/2017	00:01:30	COM4	2823.00	8.18	0.00	Bumped the plug 500 psi. over 2,250 psi. at 3 bpm. Finale pressure was 2,750 psi.
Event	15	Pressure Up Well	Pressure Up Well	8/31/2017	00:02:13	COM4	3062.00	8.18	0.00	Pressured up the well to 3,000 psi. for 15 minutes. Finale pressure was 3,450 psi.
Event	16	Check Floats	Check Floats	8/31/2017	00:19:35	USER	54.00	7.63	0.00	Release pressure back to pump truck to check floats, floats held 3.5back
Event	17	End Job	End Job	8/31/2017	00:41:10	COM4	85.00	8.20	3.70	8bbl of spacer back to surface,HOTC=7277 TOTC=5584 TOLC=1082

3.0 Attachments

3.1 Anadarko RW 35N-32HZ Production Job Chart

