

HALLIBURTON

iCem® Service

Post Job Report

ANADARKO PETROLEUM CORP - EBUS

For:

Date: Saturday, July 19, 2014

Anadarko Whipsnake #27N-22HZ

Surface

Sincerely,

Matt Bulinski

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Whipsnake 27N-22HZ** cement **Surface** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton [Brighton]

1.2 Cementing Job Summary

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*Cementing Job Summary**The Road to Excellence Starts with Safety*

Sold To #: 300466	Ship To #: 3507985	Quote #:	Sales Order #: 0901463260
Customer: ANADARKO PETROLEUM CORP - EBUS		Customer Rep: Ellis Loriorimor	
Well Name: WHIPSNAKE	Well #: 27N-22HZ	API/UWI #: 05-123-39431-00	
Field: WATTENBERG	City (SAP): IONE	County/Parish: WELD	State: COLORADO
Legal Description: SW SE-22-2N-67W-300FSL-2308FEL			
Contractor:		Rig/Platform Name/Num: Majors 29	
Job BOM: 7521			
Well Type: HORIZONTAL GAS			
Sales Person: HALAMERICA/HX46524		Srv Supervisor: Matthew Bulinski	
Job			
Formation Name			
Formation Depth (MD)	Top	Bottom	
Form Type		BHST	
Job depth MD	1334ft	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
Open Hole Section			13.5
Tools and Accessories			
Type	Size in	Qty	Make
	Depth ft		
Guide Shoe	9.625	1	1350
Float Shoe	9.625	1	
Float Collar	9.625	1	1293
Insert Float	9.625	1	
Stage Tool	9.625	1	
Top Plug	9.625	1	HES
Bottom Plug	9.625	1	HES
SSR plug set	9.625	1	HES
Plug Container	9.625	1	HES
Centralizers	9.625	1	HES
Miscellaneous Materials			
Gelling Agt	Conc	Surfactant	Conc
Treatment Fld	Conc	Inhibitor	Conc
		Acid Type	Qty
		Sand Type	Conc
			Size
			Qty
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	Mud Flush III (Powder)	Mud Flush III	12
			bbl
			8.4
			2.5
42 gal/bbl		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

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Cementing Job Summary

2	Lead Cement	SWIFTCEN (TM) SYSTEM	526	sack	14.2	1.54		5	7.64
0.20 %		VERSASET, 55 LB SK (101376573)							
0.1250 lbm		POLY-E-FLAKE (101216940)							
2 lbm		ENHANCER 923, BULK (101894003)							
1.60 %		ECONOLITE (100001580)							
2 %		CAL-SEAL 60, 50 LB BAG (101217146)							
7.64 Gal		FRESH WATER							
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	Displacement	Displacement	100	bbl	8.33			6	
Cement Left In Pipe		Amount	42 ft		Reason		Shoe Joint		
Comment Arrived 1.5hrs early and rig was at Bottom with DP Circulating.. Finished running Csg at 07:45 and circulated 1.5hrs before start of job... Job went very well. 20bbls Cmt to Surface									

1.3 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Comment
Event	1	Depart Yard Safety Meeting	Depart Yard Safety Meeting	6/27/2014	01:30:00	USER				JSA on Job Materials, Pre-tripping trucks, and driving to location
Event	2	Arrive At Loc	Arrive At Loc	6/27/2014	02:30:00	USER				Arrived 1.5hrs early and rig is at bottom with DP circulating. Finished running Csg at 07:45
Event	3	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	6/27/2014	02:32:00	USER				JSA on Hazard hunt, rigging up bulk trucks and iron to rig
Event	4	Rig-Up Equipment	Rig-Down Equipment	6/27/2014	02:40:00	USER				
Event	5	Rig-Up Completed	Rig-Up Completed	6/27/2014	03:00:00	USER				
Event	6	Safety Meeting - Pre Job	Safety Meeting - Pre Job	6/27/2014	09:00:00	USER	10.22	133.00	0.00	JSA with Company Man, Rig hands, and HES hands on pump schedule
Event	7	Start Job	Start Job	6/27/2014	09:23:13	COM5	1.58	131.00	0.00	
Event	8	Test Lines	Test Lines	6/27/2014	09:24:50	COM5	8.35	141.00	0.80	3500psi Pressure Test Lines
Event	9	Pump Spacer 1	Pump Spacer 1	6/27/2014	09:28:43	COM5	8.31	-1.00	0.50	10bbbls h2O Spacer Pumped at Avg. 2.5bbl/min with 30psi
Event	10	Pump Spacer 2	Pump Spacer 2	6/27/2014	09:32:52	COM5	8.25	25.00	2.50	12bbbls Mud Flush Spacer Pumped at Avg 2.5bbl/min with 35psi
Event	11	Pump Spacer 1	Pump Spacer 1	6/27/2014	09:37:47	COM5	8.35	25.00	2.50	10bbbls H2O Spacer Pumped at Avg. 2.5bbl/min with 35psi
Event	12	Pump Cement	Pump Cement	6/27/2014	09:43:53	COM5	13.94	42.00	2.60	526sks Swirftcem, 14.2ppg, 1.54yield, 7.64gal/sk, Mixed with rig water and # verify 4x's with pressurized mud scales.. 3wet samples and dry given to Company Man. Pumped at Avg.

										5bbl/min with 115psi
Event	13	Shutdown	Shutdown	6/27/2014	10:22:52	COM5	14.41	36.00	0.10	
Event	14	Drop Top Plug	Drop Top Plug	6/27/2014	10:24:37	COM5	0.35	-8.00	0.00	Pre-Loaded
Event	15	Pump Displacement	Pump Displacement	6/27/2014	10:25:47	COM5	0.33	-8.00	0.80	100bbls H2O Displacement, Good returns throughout. 20bbls Cmt to Surface.
Event	16	Bump Plug	Bump Plug	6/27/2014	10:44:53	COM5	8.36	756.00	3.30	Slowed down last 10bbls to 3bbl/min to bump. Plug landed at 551psi and brought to 1526psi for 5mins
Event	17	Other	Other	6/27/2014	10:51:34	COM5				Check Floats which Held
Event	18	Bump Plug	Bump Plug	6/27/2014	10:52:29	COM5	8.34	-6.00	0.00	Pressure up and bump 2nd time per company man, hold 1min
Event	19	End Job	End Job	6/27/2014	10:55:22	COM5	8.34	71.00	0.00	
Event	20	Safety Meeting - Pre Rig-Down	Safety Meeting - Pre Rig- Down	6/27/2014	10:56:02	USER	8.26	-6.00	0.00	JSA on rigging down bulk trucks and iron from rig
Event	21	Rig-Down Equipment	Rig-Down Equipment	6/27/2014	11:00:00	USER				
Event	22	Rig-Down Completed	Rig-Down Completed	6/27/2014	12:00:00	USER				
Event	23	Safety Meeting - Departing Location	Safety Meeting - Departing Location	6/27/2014	12:10:00	USER				JSA on Location clean up, pre-tripping trucks, and driving back to brighton yard

2.0 Custom Graphs

2.1 Custom Graph



