

HALLIBURTON

iCem[®] Service

CATAMOUNT EXPLORATION LLC

For:

Date: Wednesday, April 27, 2016

Lamke 33-5-29

Lamke 33-5-29

Surface Casing

Job Date: Sunday, April 17, 2016

Sincerely,

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1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	PS Pump Press (psi)	PS Pump Rate (bbl/min)	DH Density (ppg)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	4/17/2016	03:00:00	USER					Requested on location 08:00
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	4/17/2016	05:00:00	USER					With HES, 1F-550, 1 RT Cementing Unit, 1 660 Bulk Truck
Event	3	Arrive At Loc	Arrive At Loc	4/17/2016	06:45:00	USER					Rig Running Casing upon HES arrival, all equipment and cement on location
Event	4	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	4/17/2016	07:00:00	USER					With HES, Tested Water (ph 6, chlorides 0, Temp 59 F), Customer was offered an SDS for all chemicals brought on location
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	4/17/2016	09:00:00	USER					With HES
Event	6	Rig-Up Equipment	Rig-Up Equipment	4/17/2016	09:05:00	USER					1 line ran to the floor, 1 8.625 in quicklatch plug container
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	4/17/2016	09:35:00	USER	-11.00	0.00	8.34	0.0	With HES, Catamount, and AWS 507
Event	8	Start Job	Start Job	4/17/2016	09:48:00	COM4	-11.00	0.00	8.32	0.0	TD 399 ft, TP 394 ft, Hole 12.25 in, Shoe 44.5 ft, CSG 8.625 in 24 lb/ft J-55, MWT 9.0 lb/ga WBM
Event	9	Prime Pumps	Fill Lines	4/17/2016	09:53:14	USER	0.00	1.00	8.11	0.0	Returns at 1 bbl away
Event	10	Test Lines	Test Lines	4/17/2016	09:56:02	USER	1481.00	0.00	8.63	0.0	1570 psi, pressure holding
Event	11	Pump Spacer	Fresh Water Spacer	4/17/2016	10:00:54	USER	-4.00	1.70	8.57	0.3	

Event	12	Pump Cement	Pump Cement	4/17/2016	10:04:43	USER	102.00	4.10	15.89	1.4	HALCEM, Mixed at 15.8 lb/gal, 1.18 ft3/sk, 5.24 gal/sk, density verified using pressurized mud scales
Event	13	Shutdown	Shutdown	4/17/2016	10:17:55	USER	59.00	0.00	15.77	54.8	
Event	14	Drop Top Plug	Drop Top Plug	4/17/2016	10:18:54	USER	2.00	0.00	15.77	0.0	Plug launched
Event	15	Pump Displacement	Pump Displacement	4/17/2016	10:19:30	USER	41.00	3.90	15.69	0.3	Fresh Water
Event	16	Slow Rate	Slow Rate	4/17/2016	10:22:41	USER	110.00	2.50	7.91	13.0	Slowed at 15 bbl away
Event	17	Bump Plug	Bump Plug	4/17/2016	10:26:43	USER	295.00	0.00	8.34	23.2	Plug bumped at calculated displacement
Event	18	Check Floats	Check Floats	4/17/2016	10:31:56	USER	87.00	0.00	8.32	23.2	Floats holding, .5 bbl returned to the truck
Event	19	End Job	End Job	4/17/2016	10:33:03	COM4					Good Circulation, Pipe was static, Rig used 100 lbs sugar, No add hours charged, 20 bbl Cement circulated to surface
Event	20	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	4/17/2016	10:34:33	USER	-11.00	0.00	8.32	0.0	With HES
Event	21	Rig-Down Equipment	Rig-Down Equipment	4/17/2016	10:40:00	USER					
Event	22	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	4/17/2016	11:10:00	USER					With HES
Event	23	Crew Leave Location	Crew Leave Location	4/17/2016	11:15:00	USER					Thanks for using Halliburton, John Keane and crew

2.0 Custom Graphs

2.1 Custom Graph

