

HALLIBURTON

iCem[®] Service

CATAMOUNT ENERGY PARTNERS LLC-EBUS

United States of America, COLORADO

For: Brett Houston

Date: Thursday, July 19, 2018

Jaques 12

5 ½" Production

Job Date: Friday, July 20, 2018

Sincerely,

Chris Martinez

Legal Notice

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1.1 Pump Schedule

Description	Stage No.	Density (ppg)	Rate (bbl/min)	Yield (ft ³ /sack)	Water Req. (gal/sack)	Volume (bbl)	Bulk Cement (sacks)	Duration (min)
WBM	1	10.00	6.00			0.00		0.00
Tuned Spacer	2	11.50	5.00			15.00		3.00
PRB w/out CBL 2388560	3	12.30	6.00	2.4347	13.641	30.35	70.00	5.06
PRB w/ CBL 2388560	4	12.30	6.00	2.4347	13.641	69.38	160.00	11.56
PRB w CBL 2388561	5	13.50	6.00	1.8690	9.406	51.60	155.00	8.60
Top Plug/Start Displacement								
Fresh Water	6-1	8.33	6.00			50.00		8.33
Fresh Water	6-2	8.33	4.00			30.00		7.50
Fresh Water	6-3	8.33	2.50			12.86		5.14
Total:						259.19		49.20

**Pump schedule may include additional rows for displacement if "Automatic Rate Adjustment" was enabled and ECDs approached the fracture gradient.*

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	7/19/2018	10:00:00						Requested on Location @ 11:30
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/19/2018	11:00:00						
Event	3	Crew Leave Yard	Crew Leave Yard	7/19/2018	11:30:00						1 Elite, 1 pickup
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	7/19/2018	19:00:00						Rig on bottom with casing
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	7/19/2018	19:10:00						JSA completed - Customer offered/received SDS - water test pH 7.0, Cl <200, temp 80 degrees
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	7/19/2018	19:20:00						1 hardline to rig floor, water hose to rig tank, bulk hose to 660s.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	7/19/2018	19:50:00						All HES personnel, rig crew, and company rep
Event	8	Other	Start Job	7/19/2018	20:07:27						TD 3991', TP 3953, SJ 39.5', FC 3919.5 OH 7 7/8", Csg 5.5", 17 lb/ft, Mud 9.3 ppg.
Event	9	Other	Fill Lines	7/19/2018	20:08:13						Fresh Water
Event	10	Test Lines	Test Lines	7/19/2018	20:11:40		8.33	2	80	5	Held pressure 2 minutes no leaks
Event	11	Pump Spacer 1	Pump Spacer 1	7/19/2018	20:24:01		11.5	6	240	15	11.5, Tuned Spacer
Event	12	Pump Lead Cement	Pump Lead Cement #1	7/19/2018	20:27:39		12.3	6	160	30.3	70 sks, 12.3 ppg, 2.43 yield, 13.61 gal/sk, Density Verified via Mud Scales

Event	13	Pump Lead Cement	Pump Lead Cement #2	7/19/2018	20:32:44	12.3	6	110	69.2	
Event	14	Pump Tail Cement	Pump Tail Cement	7/19/2018	20:45:27	13.5	6	228	51.6	155 Sks 13.5 ppg 1.87 yield, 9.4 gal/sk
Event	15	Shutdown	Shutdown	7/19/2018	20:56:11					Clean lines to pit
Event	16	Drop Top Plug	Drop Top Plug	7/19/2018	21:03:04					Co-Rep Verify Plug Launched
Event	17	Pump Displacement	Pump Displacement	7/19/2018	21:04:07	8.33	6	990	90.9	Fresh Water
Event	18	Slow Rate	Slow Rate	7/19/2018	21:24:19	8.33	2	900	80	Slow Rate 10 bbls to calculated displacement
Event	19	Bump Plug	Bump Plug	7/19/2018	21:26:02			1580		Plug Bumped at 900 psi, Brought up to 1580 psi
Event	20	Check Floats	Check Floats	7/19/2018	21:32:50					Floats held – ½ bbl back to the truck
Event	21	Other	End Job	7/19/2018	21:33:30					Good returns throughout job. Pipe was not reciprocated during job, 10 bbl of cement back to surface.
Event	22	Pre-Rig Down Safety Meeting	Post-Job Safety Meeting (Pre Rig-Down)	7/19/2018	21:42:42					No sugar, HES top plug used, 0 add hours
Event	23	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	7/19/2018	21:56:23					
Event	24	Crew Leave Location	Crew Leave Location	7/19/2018	21:59:04					Thanks For Using Halliburton Cement. Chris Martinez And Crew.

3.0 Attachments

3.1 Jaques 12-Custom Results.png



4.0 Custom Graphs

4.1 Custom Graph

