

HALLIBURTON

iCem[®] Service

CATAMOUNT ENERGY PARTNERS LLC-EBUS

For: Jake Richter

Date: Tuesday, July 24, 2018

Catamount, Jaques #12, Surface

Job Date: Tuesday, July 17, 2018

Sincerely,

Jacob Ayers

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1.0 Job Design

1.1 Pump Schedule

Description	Stage No.	Density (ppg)	Rate (bbl/min)	Yield (ft³/sack)	Water Req. (gal/sack)	Volume (bbl)	Bulk Cement (sacks)	Duration (min)
Spud Mud	1	8.40	4.00			0.00		0.00
Fresh Water	2	8.33	4.00			10.00		2.50
Surface Blend 2334018	3	15.80	4.50	1.1745	5.156	54.39	260.00	12.09
Top Plug/Start Displacement								
Fresh Water	4-1	8.33	5.00			13.00		2.60
Fresh Water	4-2	8.33	2.00			10.10		5.05
Total:						87.49		22.24

**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	PS Pump Press (psi)	DH Density (ppg)	PS Pump Rate (bbl/min)	PS Pmp Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	7/17/2018	07:00:06	USER					Job Called out @0700
Event	2	Safety Meeting	Safety Meeting	7/17/2018	08:30:00	USER					Pre convoy safety meeting with crew
Event	3	Depart Home for Location	Depart Home for Location	7/17/2018	09:00:00	USER					Departed from the yard @ 900
Event	4	Arrive at Rig	Arrive at Rig	7/17/2018	10:45:00	USER					Arrived on location@ 1045 rig was
Event	5	Other	Well Info	7/17/2018	10:50:04	USER					OH- 12 1/4 402' Surface- 8 5/8" 24# 384' Mud wt. 8.6#
Event	6	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	7/17/2018	10:55:28	USER					Pre rig up safety meeting with crew
Event	7	Safety Meeting - Pre Job	Safety Meeting - Pre Job	7/17/2018	11:30:29	USER	36.00	8.68	0.00	28.10	Safety meeting held with all affected personnel on location
Event	8	Start Job	Start Job	7/17/2018	11:53:35	COM4	-7.00	8.35	0.00	0.00	
Event	9	Pressure Test	Pressure Test	7/17/2018	11:58:41	USER	2153.00	7.41	0.00	2.40	Tested pumps and lines to 2500 psi
Event	10	Pump Spacer 1	Pump Spacer 1	7/17/2018	12:05:43	COM4	0.00	8.18	0.00	2.40	Pumped 10 bbl fresh water spacer
Event	11	Pump Cement	Pump Cement	7/17/2018	12:09:54	COM4	151.00	17.01	5.00	14.40	260 sks@ 15.8# 1.18 yield 5.24mw= 53.25 bbl
Event	12	Drop Plug	Drop Plug	7/17/2018	12:20:24	USER	124.00	15.88	4.20	50.70	Dropped Halliburton Top plug
Event	13	Pump Displacement	Pump Displacement	7/17/2018	12:22:38	COM4	8.00	16.01	1.10	0.00	Calculated 21.8 bbl to bump plug
Event	14	Cement Returns to	Cement Returns to	7/17/2018	12:23:02	USER	92.00	9.94	5.00	1.20	Calculated 22 bbl back to

		Surface	Surface									surface. 21 bbl good cement returned to surface
Event	15	Bump Plug	Bump Plug	7/17/2018	12:29:52	USER	461.00	6.78	2.10	23.10		Calculated 130 psi to land plug. bumped plug @ 150psi brought pressure up to 850psi
Event	16	Check Floats	Check Floats	7/17/2018	12:33:42	USER	100.00	6.82	0.00	23.10		Floats held .5 bbl back
Event	17	End Job	End Job	7/17/2018	12:42:56	COM4	-13.00	6.87	0.00	0.00		

3.0 Attachments

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