

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	9/15/2011
State:	WV
County:	Taylor
API Number:	47-091-01220
Operator Name:	EQT PRODUCTION
Well Name and Number:	511502Taylor Tucker
Longitude:	-83.20194
Latitude:	43.92611
Long/Lat Projection:	NAD83
Production Type:	Gas
True Vertical Depth (TVD):	7,450
Total Water Volume (gal)*:	5,755,596

### Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
HCl	Halliburton	15% HCl Acid	Hydrochloric Acid	7647-01-0	28%	32.9412%	
	Halliburton	Corrosion Inhibitor	Propargyl Alcohol	107-19-7	10%	11.7647%	
	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	70.5882%	
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	31.8007%	
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	9.7479%	
LP-65	Halliburton	Scale Inhibitor	Ammonium chloride	12125-02-9	10%	11.7647%	
LGC-35	Halliburton	Gelling Agent	Polysaccharide	N/A	30%	31.0084%	
	Halliburton	Gelling Agent	Paraffinic Solvent	N/A	30%	31.0084%	
SP Breaker	Halliburton	Oxidizing Breaker	Sodium Persulfate	7775-27-1	100%	247.0000%	
GBW-30	Halliburton	Enzyme Breaker	Hemicellulase Enzyme	9012-54-8	15%	22.50000%	
BA-40L	Halliburton	Buffer	Potassium carbonate	584-08-7	60%	89.76000%	
LCA-1	Halliburton	Solvent (surface only)	Paraffinic Solvent		60%	0.00000%	
Sand	Halliburton	Sand					
	Halliburton						
	Halliburton						

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water

\*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.