



## 17 Appendix G – Fracturing Fluids Disclosure

A. System Details:	
Operator:	Statoil
Project / Well:	OzDelta-1
System:	750 gal 15% LT Acid; 2,000 gal water DFIT; 30,000 gal 20# DeltaFrac 140 with 4134 lb 100-mesh and 37204 lb 20/40 sand
Total Volume of System (Liters):	112,412

### B. Product List

Trade name	Supplier	Purpose	Vol % of Total	MSDS Attached
Water	Customer		89.8%	Yes
Acetic Acid - 60%	Halliburton	Buffer	1.85%	Yes
BC-140C	Halliburton	Crosslinker	0.101%	Yes
BE-9	Halliburton	Biocide	0.0547%	Yes
DCA-16001	Halliburton	Clay Control	0.135%	Yes
DCA-32002	Halliburton	Surfactant	0.0490%	Yes
FE-2	Halliburton	Buffer	0.00955%	Yes
Fluorescein Dye	Halliburton	Tracer	0.000555%	Yes
DCA-17004	Halliburton	Corrosion Inhibitor	0.00433%	Yes
Hydrochloric Acid - 32%	Halliburton	Acid	1.17%	Yes
KCl	Halliburton	Salt	0.909%	Yes
DCA-13002	Halliburton	Breaker	0.00633%	Yes
DCA-25005	Halliburton	Gelling Agent	0.149%	Yes
100 Mesh Sand	Halliburton	Proppant	0.0999%	Yes
20/40 Sand	Halliburton	Proppant	5.7%	Yes
<b>Total Fluid</b>			<b>100.0%</b>	

### C. Chemical List

Chemical Name	CAS Number	Mass %
Customer Supplied Water	7732-18-5	79.5%
Crystalline silica, quartz	14808-60-7	13.5%
Water in Products	7732-18-5	2.40%
Acetic acid	64-19-7	1.72%
Potassium chloride	7447-40-7	1.60%
Hydrochloric acid	7647-01-0	0.733%
Guar gum	9000-30-0	0.191%
Choline Chloride	67-48-1	0.129%
Monoethanolamine borate	26038-87-9	0.0623%
Alcohols, C6-12, ethoxylated propoxylated	68937-66-6	0.0425%
Citric acid	77-92-9	0.0141%
Sodium persulfate	7775-27-1	0.0139%
Alcohols, C10-16, ethoxylated propoxylated	69227-22-1	0.0127%
Tributyl tetradecyl phosphonium chloride	81741-28-8	0.00242%
Polyethylene glycol	25322-68-3	0.00212%
Coffee Extract	68916-18-7	0.000844%
Sodium fluorescein	518-47-8	0.000787%
Sodium sulfate	7757-82-6	0.0000139%