Hydraulic Fracturing Fluid Product Component Information Disclosure

12/8/2012	Fracture Date
ND	State:
McKenzie	County:
33-053-04306	API Number:
Slawson Exploration Co, Inc.	Operator Name:
Gabriel 2-36-25H	Well Name and Number:
-103.285507	Longitude:
47.848667	Latitude:
NAD83	Long/Lat Projection:
Oil	Production Type:
11,174	True Vertical Depth (TVD):
1,844,796	Total Water Volume (gal)*:

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
Sand (Proppant)	CWS	Propping Agent	Silicon Dioxide	14808-60-7	100.00%	5.21879%	
Ceramic (Proppant)	Fores	Propping Agent	Silicon Dioxide	7631-86-9	40.00%	3.76339%	
			Magnesium Silicate	1343-88-0	60.00%	5.64509%	
			Magnesium Iron Silicate	1317-71-1	10.00%	0.94085%	
DWP-621	CWS	Friction Reducer	No Hazardous Materials	Not listed	100.00%	0.01495%	
DWP-111	CWS	Gel Slurry	No Hazardous Materials	Not listed	100.00%	0.41600%	
DWP-123	CWS	Crosslinker	Borate Salt	Trade secret	Trade secret		
DWP-216	CWS	pH Buffer	Carbonic Acid, Potassium Salt	584-08-7	48.00%	0.06259%	
DWP-913	CWS	Clay Control	No Hazardous Materials	Not listed	100.00%	0.05565%	
DWP-955	CWS	Non-Emulsifier	Ethoxylated Nonyl Phenol	Trade secret	Trade secret		
			Ethoxylated Phenolic Resin	Trade secret	Trade secret		
			Isobutyl Ketone I	Trade secret	Trade secret		
			Isobutyl Alcohol	78-83-1	30.00%	0.02347%	
			Isobutyl Ketone II	Trade secret	Trade secret		
DWP-975	CWS	Breaker	Ammonium Persulfate	7727-54-0	76.00%	0.08265%	
			Cured Resin	Not listed	24.00%	0.02610%	
Water	Customer	Base Fluid	Water		100.00%	84.46856%	

^{*} Total Water Volume sources may include fresh water, produced water, and/or recycled water

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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

