

Submit within 45 days of well completion

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Revised February 15, 2012

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:P Lot:P Section:10 Township:21S Range:37E
Feet from:1255 N/S Line:S
Feet from:870 E/W Line:E

5. Bottom Hole Location:
Unit:P Lot:P Section:10 Township:21S Range:37E
Feet from:1255 N/S Line:S
Feet from:870 E/W Line:E

6. latitude: longitude:
32.489580620012 -103.145170793638

7. County:
Lea

8. Operator Name and Address:
APACHE CORP
303 Veterans Airpark Lane
Suite 3000
Midland 79705

9. OGRID: 873

10. Phone Number: 432-818-1168

11. Last Fracture Date: 10/15/2013 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
22900

14. Gross Fractured Interval:
5,599 ft to 6,682 ft

15. True Vertical Depth (TVD):
6,682 ft

16. Total Volume of Fluid Pumped:
237,006 gals

17. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:

Trade Name	Supplier	Purpose	Ingredients	(CAS #) Chemical Abstract Service #	Maximum Ingredient Concentration in Additive (% by mass)	Maximum Ingredient Concentration in HF Fluid (% by mass)
Water	Operator	Carrier	Water	7732-18-5	100%	75.3754%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.56972%
			Water	7732-18-5	85%	3.2284%
Superset-U, tote	Baker Hughes	Activator	Denatured Ethanol	64-17-5	45%	0.13077%
			Di (Ethylene Glycol) Ethyl Ether Acetate	112-15-2	55%	0.15982%
X-Cide 207	Baker Hughes	Biocide	2-Methyl-4-Isothiazolin-3-One	2682-20-4	5%	0.00016%
			5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10%	0.00032%
			Crystalline Silica: Cristobalite	14464-46-1	1%	3E-05%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	3E-05%
			Diatomaceous Earth, Calcined	91053-39-3	60%	0.00192%
			Magnesium Chloride	7786-30-3	5%	0.00016%
			Magnesium Nitrate	10377-60-3	10%	0.00032%
Alpha 125	Baker Hughes	Biocide	Water	7732-18-5	75%	0.02203%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.00381%
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100%	0.06354%
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.08691%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.06454%
			Water	7732-18-5	30%	0.02581%
CI-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	10%	0.00055%
			Methanol	67-56-1	100%	0.00553%
			Olefin	Trade Secret	5%	0.00028%
			Polyoxyalkylenes	Trade Secret	30%	0.00166%
			Propargyl Alcohol	107-19-7	5%	0.00028%
CorrSorb 3600, 25 lb pail	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	9046-01-9	10%	0.00181%
			Crystalline Silica: Quartz	14808-60-7	1%	0.00018%
			Ethylene Glycol	107-21-1	1%	0.00018%
			Quaternary Ammonium Compound	61789-71-7	30%	0.00544%
XLW-24	Baker Hughes	Crosslinker	Glyoxal	107-22-2	10%	0.01655%
			Sodium Tetraborate	1303-96-4	30%	0.04964%
FRW-18	Baker Hughes	Friction Reducer	Petroleum Distillates	64742-47-8	30%	0.00101%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.35043%
			Petroleum Distillate Blend (1)	64742-47-8	70%	0.40884%
			Petroleum Distillate Blend (3)	8042-47-5	70%	0.40884%
			Petroleum Distillate Blend (2)	64742-55-8	70%	0.40884%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.0091%
			Ammonium Hydroxide	1336-21-6	5%	0.00046%
			Cupric Chloride	7447-39-4	5%	0.00046%
NE-23, 55 gallon drum	Baker Hughes	Non-emulsifier	Isopropanol	67-63-0	30%	0.00097%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.04183%
			Propylene Glycol	57-55-6	30%	0.0251%
Super LC, 16/30	Baker Hughes	Proppant	Hexamethylenetetramine	100-97-0	0.01%	0.0018%
			P/F Resin	9003-35-4	5%	0.89862%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	17.43321%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.00413%
			Ethylene Glycol	107-21-1	30%	0.02475%
Ingredients shown above are subject to 29 CFR 1910			Benzyl Chloride	100-44-7	0%	3.25E-05%
			Ethoxylated Alcohol	Trade Secret	0%	6.74E-05%
			Ethoxylated Nonylphenol	9016-45-9	0%	0.0001623%
			Formaldehyde	50-00-0	0%	5.53E-05%
			Glutaraldehyde	111-30-8	0%	0.0088105%
			Glycol Ether	Trade Secret	0%	0.0001623%
			Hydrochloric Acid	7647-01-0	0%	5.53E-05%
			Methanol	67-56-1	0%	7.34E-05%
			Modified Thiorea Polymer	68527-49-1	0%	0.0003872%
			Olefin Sulfonate	Trade Secret	0%	0.0019476%
			Poly (acrylamide-co-acrylic acid)	Trade Secret	0%	0.0010113%
			Polyacrylate	Trade Secret	0%	0.0165007%
			Polyester	Trade Secret	0%	0.0004869%
			Potassium Chloride	7447-40-7	0%	4.13E-05%
			Potassium Hydroxide	1310-58-3	0%	0.0014485%
			Quaternary Amine Compounds	Trade Secret	0%	0.0009738%
			Salt	Trade Secret	0%	0.0001685%
			Sodium Chloride	7647-14-5	0%	2.48E-05%
			Sorbitan Monooleate	Trade Secret	0%	0.0001685%
			Water	7732-18-5	0%	0.133267%

18. I, as Operator, hereby certify that the information shown on this disclosure form is true and complete to the best of my knowledge and belief.

Signature: Signed Electronically Printed Name: Reesa R. Holland Title: Sr Staff Reg Tech

Date: 10/28/2013

E-mail Address: reesa.holland@apachecorp.com

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