

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

1. WELL API NO:
30-015-40090

2. Well Name:
WASHINGTON 33 STATE #050

3. Well Number:
050

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:G Lot:G Section:33 Township:17S Range:28E
Feet from:1650 N/S Line:N
Feet from:2310 E/W Line:E

5. Bottom Hole Location:
Unit:G Lot:G Section:33 Township:17S Range:28E
Feet from:1650 N/S Line:N
Feet from:2310 E/W Line:E

6. Latitude:
32.7937112265518

Longitude:
-104.18004763547

7. County:
Eddy

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

9. OGRID:
873

10. Phone Number:
432-818-1062

11. Last Fracture Date: 5/29/2012 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
96830

14. Gross Fractured Interval:
3,437 ft to 4,815 ft

15. True Vertical Depth (TVD):
4,815 ft

16. Total Volume of Fluid Pumped:
7,222 bbls

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%	84.31236%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.41624%
			Water	7732-18-5	85%	2.35867%
Superset-W, 330 gl tote	Baker Hughes	Activator	Methanol	67-56-1	50%	0.02226%
			Poly (Oxyethylene) Nonylphenol Ether	9016-45-9	50%	0.02226%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.00819%
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.00283%
GBW-15L	Baker Hughes	Breaker	Enzyme solution	Trade Secret	100%	0.04875%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.03548%
			Water	7732-18-5	30%	0.01419%
CI-31	Baker Hughes	Corrosion Inhibitor	Aromatic Aldehyde	Trade Secret	30%	0.00091%
			Benzyl Chloride	100-44-7	1%	3E-05%
			Cyclic Alkanes	Trade Secret	5%	0.00015%
			Formic Acid	64-18-6	60%	0.00182%
			Isopropanol	67-63-0	10%	0.0003%
			Methanol	67-56-1	5%	0.00015%
			Organic Sulfur Compound	Trade Secret	5%	0.00015%
			Oxyalkylated Fatty Acid	Trade Secret	30%	0.00091%
			Quaternary Ammonium Compound	Trade Secret	30%	0.00091%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.02741%
			Sodium Hydroxide	1310-73-2	10%	0.00914%
			Sodium Tetraborate	1330-43-4	30%	0.02741%
BioSealers MR	Baker Hughes	Degradable Sealers	Non-Hazardous Ingredient	Trade Secret	100%	0.00367%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	40%	0.1919%
			Petroleum Distillates Blend	Trade Secret	70%	0.33583%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00796%
			Ammonium Hydroxide	1336-21-6	5%	0.0004%
			Cupric Chloride	7447-39-4	5%	0.0004%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.04407%
			Propylene Glycol	57-55-6	30%	0.02644%
Sand, White, 16/30	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	9.50252%
Super LC, 16/30	Baker Hughes	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.00022%
			P/F Resin	9003-35-4	5%	0.11008%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	2.13556%
ScaleSorb 3, (50# bag)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.005%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00017%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.01667%
			Phosphonic Acid	13598-36-2	1%	0.00017%
ES-4A, Greenskeeper Solvent	Baker Hughes	Solvent	Petroleum Distillates Blend	Trade Secret	100%	0.03107%
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02543%
			Mixture of Surfactants	Trade Secret	50%	0.04239%
			Water	7732-18-5	30%	0.02543%
Ingredients shown above are subject to 29 CFR 1910			2-Mercaptoethyl Alcohol	60-24-2	0%	0.000106%
			Alcohols, C12-14, Ethoxylated Propoxylated	68439-51-0	0%	0.0239876%
			Alkylene Oxide Block Polymer	Trade Secret	0%	0.0001212%
			Crystalline Silica, Quartz	14808-60-7	0%	0.0239876%
			Diethylene Glycol	111-46-6	0%	3E-06%
			Isotridecanol, Ethoxylated (TDA-6)	9043-30-5	0%	0.0239876%
			Isotridecanol, Ethoxylated (TDA-9)	9043-30-5	0%	0.0239876%
			Methanol	67-56-1	0%	6.82E-05%
			Quaternary Ammonium Compound	Trade Secret	0%	0.0001363%
			Quaternary Ammonium Compounds bis [Hydrogenated Tallow Alkyl] Dimethyl Salts With Bentonite	68953-58-2	0%	0.0239876%
			Water	7732-18-5	0%	0.0637489%

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: Fatima Vasquez Title: Regulatory Tech

Date: 8/2/2012

E-mail Address: fatima.vasquez@apachecorp.com

NMOCD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.