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 November 6, 2013

1. WELL API NO.
30-015-39895

2. Well Name:
WASHINGTON 33 STATE #032

3. Well Number:
032

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:B Lot:B Section:33 Township:17S Range:28E
Feet from:620 N/S Line:N
Feet from:2310 E/W Line:E

5. Bottom Hole Location:
Unit:B Lot:B Section:33 Township:17S Range:28E
Feet from:620 N/S Line:N
Feet from:2310 E/W Line:E

6. latitude: 32.7965420315316 longitude: -104.180088442247

7. County:
Eddy

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

9. OGRID: 873

10. Phone Number: 432-818-1168

11. Last Fracture Date: 4/30/2012 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
96830

14. Gross Fractured Interval:
3,416 ft to 4,762 ft

15. True Vertical Depth (TVD):
4,762 ft

16. Total Volume of Fluid Pumped:
225,414 gals

17. Total Volume of Re-Use Water Pumped:
N/A

18. Percent of Re-Use Water in Fluid Pumped:
Not Disclosed

19. **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%	82.51665%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.50933%
			Water	7732-18-5	85%	2.88622%
Superset-U, tote	Baker Hughes	Activator	Denatured Ethanol	64-17-5	45%	0.02534%
			Di (Ethylene Glycol) Ethyl Ether Acetate	112-15-2	55%	0.03097%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.00707%
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.00483%
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3%	0.00143%
			Water	7732-18-5	97%	0.04616%
CI-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	10%	0.00048%
			Olefin	Trade Secret	5%	0.00024%
			Polyoxyalkylenes	Trade Secret	30%	0.00143%
			Propargyl Alcohol	107-19-7	5%	0.00024%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.03734%
			Sodium Hydroxide	1310-73-2	10%	0.01245%
			Sodium Tetraborate	1330-43-4	30%	0.03734%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.31059%
			Paraffinic Petroleum Distillate	64742-55-8	60%	0.31059%
			Petroleum Distillate	64742-47-8	60%	0.31059%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.00927%
			Ammonium Hydroxide	1336-21-6	5%	0.00046%
			Cupric Chloride	7447-39-4	5%	0.00046%
NE-945, tote	Baker Hughes	Non-emulsifier	Oxyalkylated alcohol	Trade Secret	5%	0.00439%
Sand, White, 16/30	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	10.15424%
Super LC, 16/30	Baker Hughes	Proppant	Hexamethylenetetramine	1009-7-0	0.01%	0.00024%
			P/F Resin	9003-35-4	5%	0.12148%
			Silicon Dioxide (Silica Sand)	14808-60-7	97%	2.35679%
ScaleSorb 3, (50# bag)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.00659%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00022%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.02195%
			Phosphonic Acid	13598-36-2	1%	0.00022%
Flo-Back 40	Baker Hughes	Surfactant	Amphoteric Surfactant	Trade Secret	40%	0.04025%
Ingredients shown above are subject to 29 CFR 1910			Alkoxylated Amine	Trade Secret	0%	0.0087746%
			Alkylene Oxide Block Polymer	Trade Secret	0%	0.0100031%
			Antifoam	Trade Secret	0%	1.75E-05%
			Formaldehyde	50-00-0	0%	4.77E-05%
			Hydrochloric Acid	7647-01-0	0%	4.77E-05%
			Methanol	67-56-1	0%	0.0048336%
			Modified Thiorea Polymer	68527-49-1	0%	0.0003342%
			Organic Sulfonic Acid	27176-87-0	0%	0.0001755%
			Polyglycol	25322-68-3	0%	0.0016672%
			Polyquaternary Amine	Trade Secret	0%	0.001053%
			Sodium Chloride	7647-14-5	0%	0.0301903%
			Water	7732-18-5	0%	0.1770083%

20. 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: 11/18/2013

E-mail Address: reesa.holland@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.