

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

1. WELL API NO.
30-015-39070

2. Well Name:
N B TWEEN STATE #018

3. Well Number:
018

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:C Lot:C Section:25 Township:17S Range:28E
Feet from:550 N/S Line:N
Feet from:2310 E/W Line:W

5. Bottom Hole Location:
Unit:C Lot:C Section:25 Township:17S Range:28E
Feet from:550 N/S Line:N
Feet from:2310 E/W Line:W

6. latitude: 0 longitude: 0

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: 3/20/2012 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
96830

14. Gross Fractured Interval:
3,730 ft to 5,542 ft

15. True Vertical Depth (TVD):
5,542 ft

16. Total Volume of Fluid Pumped:
10,419 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%	83.67966%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.36584%
			Water	7732-18-5	85%	2.07308%
Activator, 330 gal tote	Baker Hughes	Activator	Alcohols, C12-14-Secondary, Ethoxylated	84133-50-6	70%	0.03472%
			Methanol	67-56-1	50%	0.0248%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.00745%
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.00344%
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3%	0.00123%
			Water	7732-18-5	97%	0.03988%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.03442%
			Water	7732-18-5	30%	0.01377%
CI-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	61790-12-3	10%	0.00038%
			Methanol	67-56-1	100%	0.00383%
			Olefin	64743-02-8	5%	0.00019%
			Polyoxyalkylenes	68951-67-7	30%	0.00115%
			Propargyl Alcohol	107-19-7	5%	0.00019%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.03027%
			Sodium Hydroxide	1310-73-2	10%	0.01009%
			Sodium Tetraborate	1330-43-4	30%	0.03027%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	40%	0.2132%
			Petroleum Distillates Blend	Trade Secret	70%	0.3731%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.008%
			Ammonium Hydroxide	1336-21-6	5%	0.0004%
			Cupric Chloride	7447-39-4	5%	0.0004%
NE-945, tote	Baker Hughes	Non-emulsifier	Oxyalkylated alcohol	Trade Secret	5%	0.0046%
Sand, White, 16/30	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	10.31052%
SiberProp, 16/30	Baker Hughes	Proppant	Quartz (SiO2)	14808-60-7	100%	2.24439%
ScaleSorb 3, (50# bag)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.00516%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00017%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.0172%
			Phosphonic Acid	13598-36-2	1%	0.00017%
ES-4A, Greenskeeper Solvent	Baker Hughes	Solvent	Petroleum Distillates Blend	Trade Secret	100%	0.04409%
Flo-Back 40	Baker Hughes	Surfactant	Amphoteric Surfactant	Trade Secret	40%	0.03872%
Ingredients shown above are subject to 29 CFR 1910			Alcohols, C12-14, Ethoxylated Propoxylated	68439-51-0	0%	0.0266502%
			Alkoxylated Amine	Trade Secret	0%	0.0092063%
			Alkylene Oxide Block Polymer	Trade Secret	0%	0.0104952%
			Antifoam	Trade Secret	0%	1.84E-05%
			Crystalline Silica, Quartz	14808-60-7	0%	0.0266502%
			Formaldehyde	50-00-0	0%	0%
			Hydrochloric Acid	7647-01-0	0%	0%
			Isotridecanol, Ethoxylated (TDA-6)	9043-30-5	0%	0.0266502%
			Isotridecanol, Ethoxylated (TDA-9)	9043-30-5	0%	0.0266502%
			Methanol	67-56-1	0%	6.21E-05%
			Modified Thiourea Polymer	68527-49-1	0%	0%
			Organic Sulfonic Acid	27176-87-0	0%	0.0001841%
			Polyglycol	25322-68-3	0%	0.0017492%
			Polyquaternary Amine	Trade Secret	0%	0.0011048%
			Quaternary Ammonium Compounds bis [Hydrogenated Tallow Alkyl] Dimethyl Salts With Bentonite	68953-58-2	0%	0.0266502%
			Sodium Chloride	7647-14-5	0%	0.029037%
			Water	7732-18-5	0%	0.2000893%

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. Engineering Tech

Date: 6/27/2012

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.