

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 8, 2013

1. WELL API NO:
30-025-40783

2. Well Name:
DIAMONDTAIL 23 FEDERAL #008H

3. Well Number:
008H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:23 Township:23S Range:32E
Feet from:330 N/S Line:N
Feet from:600 E/W Line:E

5. Bottom Hole Location:
Unit:A Lot:A Section:23 Township:23S Range:32E
Feet from:330 N/S Line:N
Feet from:600 E/W Line:E

6. latitude: 32.296549377703 longitude: -103.638843263008

7. County: Lea

8. Operator Name and Address:
CIMAREX ENERGY CO.
600 N MARIENFELD STREET
SUITE 600
MIDLAND 79701

9. OGRID: 215099

10. Phone Number:

11. Last Fracture Date: 1/17/2015 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
17644

14. Gross Fractured Interval:
9,707 ft to 9,860 ft

15. True Vertical Depth (TVD):
9,860 ft

16. Total Volume of Fluid Pumped:
6,953,808 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)
Fresh Water	Operator	Base Fluid	Water	7732-18-5		89.57078%
Premium White Sand	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7		10.28499%
Permvis VFR-10	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8		0.03085%
			Alcohols, C12-16, ethoxylated	68551-12-2		0.01028%
			Ammonium chloride	12125-02-9		0.01028%
			9-Octadecenamide,n,n-bis-2 (hydroxy-ethyl)-,(Z)	93-83-4		0.00514%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Proprietary		0.00406%
			Glycerine	56-81-5		0.00813%
			Poly(oxo-1,2-ethanediy), ,alpha -isodecyl- omega -hydroxy-	61827-42-7		0.02438%
LCA-1	Halliburton	Solvent	Paraffinic solvent	Proprietary		0.00177%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0		4E-05%
			Crystalline silica, quartz	14808-60-7		1E-05%
OptiKleen-WF	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7		0.00524%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0		0.00161%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1		9E-05%
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0		0.006%
Cronox AK-50	Petroplex	Corrosion Inhibitor	Oxyalkylated Alkylphenol	Proprietary		2E-05%
			Heavy Aromatic Naptha	64742-94-5		2E-05%
			Isopropanol	67-63-0		2E-05%
			Fatty Acids	Proprietary		1E-05%
			Complex Alkylaryl Polyo-Ester	Proprietary		1E-05%
			Tar Bases, Quinoline Derivatives, Benzyl Chloride-Quaternized	72480-70-7		1E-05%
			Formaldehyde	50-00-0		1E-05%
			Acetylenic Alcohol	Proprietary		0%
			Propargyl Alcohol	107-19-7		0%
			Napthalene	91-20-3		0%
Citric Acid	Petroplex	Iron Control	Citric Acid	77-92-9		0.002%
EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha	64742-94-5		1E-05%
			Isopropanol	67-63-0		4E-05%
			Polyethylene Glycol	25322-68-3		0%
			Napthalene	91-20-3		0%
			Phosphoric Acid Ester	Proprietary		1E-05%
			Oxyalkylated Alcohol	Proprietary		1E-05%
			Oxyalkylated Alkyl Alcohol	Proprietary		1E-05%
ClO2	Bosque	Biocide	Chlorine Dioxide	10049-04-4		0.00016%
Non MSDS Ingredients			Alcohols ethoxylated	Proprietary		0%
			Alkane	Proprietary		0%
			Amide	Proprietary		0%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4		0%
			Crystalline Silica, Quartz	14808-60-7		0%
			Cured acrylic resin	Proprietary		0%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8		0%
			Fatty acid ester	Proprietary		0%
			Fatty acid ester	Proprietary		0%
			Hydrogen peroxide	7722-84-1		0%
			Inorganic salt	Proprietary		0%
			Inorganic salt	Proprietary		0%
			Nitrotriactic acid, trisodium salt monohydrate	5064-31-3		0%
			Polyacrylate	Proprietary		0%
			Silica gel	112926-00-8		0%
			Sodium bicarbonate	144-55-8		0%
			Sodium glycollate	2836-32-0		0%
			Sodium hydroxide	1310-73-2		0%
			Sodium sulfate	7757-82-6		0%
			Surfactant mixture	Proprietary		0%
			Surfactant mixture	Proprietary		0%
			Water	7732-18-5		0%

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: Skipper Herring

Manager Stimulation

Date: 2/13/2015 Title: Operations

E-mail Address: sherring@climarex.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.