

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: 30-025-40772
2. Well Name: DIAMONDTAIL 23 FEDERAL #006H
3. Well Number: 006H
4. Surface Hole Location: Unit:B Lot:B Section:23 Township:23S Range:32E Feet from:330 N/S Line:N Feet from:1905 E/W Line:E
5. Bottom Hole Location: Unit:B Lot:B Section:23 Township:23S Range:32E Feet from:330 N/S Line:N Feet from:1905 E/W Line:E
6. latitude: 32.296530774086 longitude: -103.643086716438
7. County: Lea

**HYDRAULIC FRACTURING FLUID
DISCLOSURE**

Original
 Amendment

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: 9,783 ft to 9,852 ft	
15. True Vertical Depth (TVD): 9,852 ft	16. Total Volume of Fluid Pumped: 7,445,398 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	Fresh Water	7732-18-5	100%	90.31828%
PREMIUM WHITE SAND	Halliburton	Proppant	Crystalline Silica, Quartz	14808-60-7	100%	9.50651%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Proprietary	5%	0.00493%
			Glycerine	56-81-5	10%	0.00986%
			Poly(oxy-1,2-ethanediyl), alpha-isodecyl-omega-hydroxy-	61827-42-7	30%	0.02958%
PermVis VFR-10	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	0.03211%
			Alcohols, C12-16, ethoxylated	68551-12-2	10%	0.0107%
			Ammonium chloride	12125-02-9	10%	0.0107%
			9-Octadecenamide, n,n-bis-2 (hydroxy-ethyl)-, (Z)	93-83-4	0.05%	0.00535%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00106%
			Crystalline silica, quartz	14808-60-7	30%	0.00032%
OptiKleen-WF	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00557%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.02353%
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.00589%
Cronox AK-50	Petroplex	Corrosion Inhibitor	Oxyalkylated Alkylphenol	Proprietary	30%	2E-05%
			Heavy Aromatic Naptha	64742-94-5	30%	2E-05%
			Isopropanol	67-63-0	30%	2E-05%
			Fatty Acids	Proprietary	10%	1E-05%
			Complex Alkylaryl Poly-Ester	Proprietary	10%	1E-05%
			Tar Bases, Quinoline Derivatives, Benzyl Chloride-Quaternized	72480-70-7	10%	1E-05%
			Formaldehyde	50-00-0	10%	1E-05%
			Acetylenic Alcohol	Proprietary	5%	0%
			Propargyl Alcohol	107-19-7	5%	0%
			Naphthalene	91-20-3	5%	0%
Citric Acid	Petroplex	Iron Control	Citric Acid	77-92-9	100%	0.00197%
EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha	64742-94-5	10%	1E-05%
			Isopropanol	67-63-0	60%	4E-05%
			Polyethylene Glycol	25322-68-3	5%	0%
			Napthalene	91-20-3	1%	0%
			Phosphoric Acid Ester	Proprietary	10%	1E-05%
			Oxyalkylated Alcohol	Proprietary	10%	1E-05%
			Oxyalkylated Alkyl Alcohol	Proprietary	10%	1E-05%
ClO2	Bosque	Biocide	Chlorine Dioxide	10049-04-4	100%	0.00013%
Non MSDS Ingredients			Alcohols, C12-16, ethoxylated	68551-12-2	0%	0%
			Alkane	Proprietary	0%	0%
			Ammonium chloride	12125-02-9	0%	0%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			Crystalline Silica, Quartz	14808-60-7	0%	0%
			Cured acrylic resin	Proprietary	0%	0%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0%	0%
			Fatty acid tall oil amide	Proprietary	0%	0%
			Hydrogen peroxide	7722-84-1	0%	0%
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0%	0%
			Polyacrylamide copolymer	Proprietary	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium bicarbonate	144-55-8	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium glycolate	2836-32-0	0%	0%
			Sodium hydroxide	1310-73-2	0%	0%
			Sorbitan monooleate	9005-65-6	0%	0%
			polyoxyethylene derivative	Proprietary	0%	0%
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	0%	0%
			Surfactant mixture	Proprietary	0%	0%
			Water	7732-18-5	0%	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: 2/12/2015 Title: Operations
E-mail Address: sherring@cimarex.com

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