

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:
30-025-40780

2. Well Name:
DIAMONDTAIL 23 FEDERAL #001

3. Well Number:
001

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

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

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

6. latitude:
32.2964916325405 longitude:
-103.652008609742

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: 2/22/2014 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
17644

14. Gross Fractured Interval:
9,434 ft to 9,685 ft

15. True Vertical Depth (TVD):
9,685 ft

16. Total Volume of Fluid Pumped:
6,839,332 gals

17. Total Volume of Re-Use Water Pumped:
0 gals

18. Percent of Re-Use Water in Fluid Pumped:
%

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%	89.32797%
Premium White Sand	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	10.46768%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Proprietary	5%	0.00415%
			Glycerine	56-81-5	10%	0.0083%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.0249%
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	0.02318%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00082%
LCA-1	Halliburton	Solvent	Paraffinic solvent	Proprietary	100%	0.00335%
OptiKleen-WF	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00797%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.0405%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00263%
SP BREAKER	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00079%
K-34	Halliburton	Buffer	Sodium persulfate	7775-27-1	100%	0.00132%
HCL 15%	Halliburton	Buffer	Sodium bicarbonate	144-55-8	100%	0.00047%
Cronox AK-50	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.01222%
		Corrosion Inhibitor	Oxyalkylated Alkylphenol	Proprietary	30%	4E-05%
			Heavy Aromatic Naptha	64742-94-5	30%	4E-05%
			Isopropanol	67-63-0	30%	4E-05%
			Fatty Acids	Proprietary	10%	1E-05%
			Complex Alkylaryl Polyo-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%	1E-05%
			Propargyl Alcohol	107-19-7	5%	1E-05%
			Napthalene	91-20-3	5%	1E-05%
Citric Acid	Petroplex	Iron Control	Citric Acid	77-92-9	100%	0.00408%
EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha	64742-94-5	10%	1E-05%
			Isopropanol	67-63-0	60%	8E-05%
			Polyethylene Glycol	25322-68-3	5%	1E-05%
			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%
CIO2	Bosque	Biocide	Chlorine Dioxide	10049-04-4	100%	0.00012%
Ingredients Listed Below This Line Are Part of the			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%
			Nitrotriactic 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 glycollate	2836-32-0	0%	0%
			Sodium hydroxide	1310-73-2	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	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: 3/30/2014 Title: Operations

E-mail Address: sherring@cimarex.com

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