

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: 30-015-41426				
		2. Well Name: SANDY FEDERAL #020H				
		3. Well Number: 020H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:P Lot:P Section:23 Township:23S Range:30E Feet from:285 N/S Line:S Feet from:250 E/W Line:E				
		5. Bottom Hole Location: Unit:P Lot:P Section:23 Township:23S Range:30E Feet from:285 N/S Line:S Feet from:250 E/W Line:E				
		6. Latitude: Longitude: 32.2839748162713 - 103.843764329871				
		7. County: Eddy				
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: 8/20/2013 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 96403		14. Gross Fractured Interval: 9,800 ft to 9,896 ft				
15. True Vertical Depth (TVD): 9,896 ft		16. Total Volume of Fluid Pumped: 1,693,489 gals				
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)
Fresh Water	Operator	Base fluid	Water	7732-18-5	100%	83.1942%
LoSurf 360	Halliburton	Surfactant	Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy	61827-42-7	30%	0.02488%
			Complex alkylamine	Proprietary	5%	0.00415%
Premium White-20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.45171%
CRC Garnet- 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	4.61458%
			Hexamethylenetetramine	100-97-0	2%	0.09229%
BC-140 X2	Halliburton	Initiator	Phenol / formaldehyde resin	9003-35-4	5%	0.23073%
			Ethylene glycol	107-21-1	30%	0.02148%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Monoethanolamine borate	26038-87-9	100%	0.07161%
			Guar gum	9000-30-0	100%	0.1788%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00167%
			Walnut hulls	Proprietary	100%	0.00555%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00047%
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	15%	0.01536%
Cronox AK-50	Petroplex	Corrosion Inhibitor	Oxyalkylated Alkylphenol	Proprietary	30%	6E-05%
			Heavy Aromatic Naptha	64742-94-5	30%	6E-05%
			Isopropanol	67-63-0	30%	6E-05%
			Fatty Acids	Proprietary	10%	2E-05%
			Complex Alkylaryl Poly- Ester	Proprietary	10%	2E-05%
			Tar Bases, Quinoline Derivatives, Benzyl Chloride-Quaternized	72480-70-7	10%	2E-05%
			Formaldehyde	50-00-0	10%	2E-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%	0.00512%
EC9546A	Petroplex	Surfactant	Heavy Aromatic Naptha	64742-94-5	10%	2E-05%
			Isopropanol	67-63-0	60%	0.00011%
			Polyethylene Glycol	25322-68-3	5%	1E-05%
			Napthalene	91-20-3	1%	0%
			Phosphoric Acid Ester	Proprietary	10%	2E-05%
			Oxyalkylated Alcohol	Proprietary	10%	2E-05%
			Oxyalkylated Alkyl Alcohol	Proprietary	10%	2E-05%
			Chlorine Dioxide	10049-04-4	100%	0.00017%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0%	0%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
C.I. Pigment Red 5	6410-41-9	0%	0%			
Crystalline Silica, Quartz	14808-60-7	0%	0%			
Cured acrylic resin	Proprietary	0%	0%			
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Enzyme	Proprietary	0%	0%			
Silica gel	112926-00-8	0%	0%			
Sodium sulfate	7757-82-6	0%	0%			
Surfactant mixture	Proprietary	0%	0%			
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: Skipper Herring		Manager Stimulation Title: Operations		
Date: 9/24/2013						
E-mail Address: sherring@cimarex.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.