

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. 30-015-39762				
		2. Well Name: REDBUD FEDERAL #004				
		3. Well Number: 004				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:C Lot:C Section:25 Township:17S Range:27E Feet from:1012 N/S Line:N Feet from:2268 E/W Line:W				
		5. Bottom Hole Location: Unit:C Lot:C Section:25 Township:17S Range:27E Feet from:1012 N/S Line:N Feet from:2268 E/W Line:W				
		6. latitude: longitude: 32.8095206324931 - 104.233416846329				
		7. County: Eddy				
8. Operator Name and Address: COG OPERATING LLC ONE CONCHO CENTER 600 W. ILLINOIS AVENUE MIDLAND 79701			9. OGRID: 229137		10. Phone Number:	
11. Last Fracture Date: 5/24/2012 Frac Performed by: Baker Hughes			12. Production Type: O			
13. Pool Code(s): 96836			14. Gross Fractured Interval: 3,200 ft to 4,500 ft			
15. True Vertical Depth (TVD): 4,734 ft			16. Total Volume of Fluid Pumped: 11,986 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%	83.98745%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.2684%
			Water	7732-18-5	85%	1.52094%
Activator, 330 gal tote	Baker Hughes	Activator	Alcohols, C12-14-Secondary, Ethoxylated	84133-50-6	70%	0.01493%
			Methanol	67-56-1	50%	0.01066%
X-Cide 207	Baker Hughes	Biocide	2-Methyl-4-Isothiazolin-3-One	2682-20-4	5%	0.00016%
			5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10%	0.00032%
			Crystalline Silica: Cristobalite	14464-46-1	1%	3E-05%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	3E-05%
			Diatomaceous Earth, Calcined	91053-39-3	60%	0.00191%
			Magnesium Chloride	7786-30-3	5%	0.00016%
			Magnesium Nitrate	10377-60-3	10%	0.00032%
			GBW-5	Baker Hughes	Breaker	Ammonium Persulfate
Enzyme G-I	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	9025-56-3	3%	0.00113%
			Water	7732-18-5	97%	0.03641%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00045%
			Methanol	67-56-1	60%	0.00089%
			Olefin	Trade Secret	5%	7E-05%
			Polyoxyalkylenes	Trade Secret	30%	0.00045%
			Propargyl Alcohol	107-19-7	10%	0.00015%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.02912%
			Sodium Hydroxide	1310-73-2	10%	0.00971%
			Sodium Tetraborate	1330-43-4	30%	0.02912%
			BioSealers MR	Baker Hughes	Degradable Sealers	Non-Hazardous Ingredient
FRW-14 (Small Tote)	Baker Hughes	Friction Reducer	No Hazardous Ingredients	N.A.	100%	0.00414%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	40%	0.14887%
			Petroleum Distillates Blend	Trade Secret	70%	0.26052%
Ferotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.01029%
			Ammonium Hydroxide	1336-21-6	5%	0.00051%
			Cupric Chloride	7447-39-4	5%	0.00051%
			NE-945, tote	Baker Hughes	Non-emulsifier	Oxyalkylated alcohol
Sand, Brown, 16/30	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	11.2054%
SiberProp, 16/30	Baker Hughes	Proppant	Quartz (SiO2)	14808-60-7	100%	2.10622%
Scaletrol 721, tote	Baker Hughes	Scale Inhibitor	Diethylene Glycol	111-46-6	1%	0.00032%
			Ethylene Glycol	107-21-1	15%	0.00486%
			Synthetic Polymer	Trade Secret	15%	0.00486%
			ES-4A, Greenskeeper Solvent	Baker Hughes	Solvent	Petroleum Distillates Blend
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.02733%
			Mixture of Surfactants	Trade Secret	50%	0.04555%
			Water	7732-18-5	30%	0.02733%
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: Chasity Jackson		Title: Regulatory Analyst		
Date: 8/22/2012						
E-mail Address: cjackson@conchoresources.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.