

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: 30-025-40899 2. Well Name: PAN HEAD FEE #012H 3. Well Number: 012H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:D Lot:D Section:11 Township:17S Range:32E Feet from:330 N/S Line:N Feet from:990 E/W Line:W 5. Bottom Hole Location: Unit:D Lot:D Section:11 Township:17S Range:32E Feet from:330 N/S Line:N Feet from:990 E/W Line:W 6. Latitude: 32.8554274172319 Longitude:-103.742534075028 7. County: Lea				
8. Operator Name and Address: COG OPERATING LLC One Concho Center 600 W. Illinois Ave Midland 79701		9. OGRID: 229137 10. Phone Number: 432-685-4332				
11. Last Fracture Date: 4/20/2015 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 44500		14. Gross Fractured Interval: 6,064 ft to 11,310 ft				
15. True Vertical Depth (TVD): 5,882 ft		16. Total Volume of Fluid Pumped: 5,003,873 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)
FE Acid > 10%	Halliburton	Base Fluid	NA	NA	0%	0%
Fresh Water	Operator	Base Fluid	Fresh Water	7732-18-5	100%	78.90899%
BC-140 X2, BE-6 MICROBIOCIDES, BE-9, CAT-OS-1, HAI-	Halliburton	Activator, Biocide, Breaker, Corrosion Inhibitor, Gelling Agent, Initiator, Microbiocide, Proppant,	1,2-Benzisothiazolin-3-one	NA	0%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	2634-33-5	0.1%	0%
			2-Bromo-2-nitro-1,3-propanediol	915-67-3	0.1%	5E-05%
			Alcohols, C14-C15, ethoxylated	52-51-7	100%	5E-05%
			Alkane	68951-67-7	30%	0.00096%
			Ammonium acetate	Confidential	1%	0.0004%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	631-61-8	30%	0.01083%
			C.I. Pigment Red 5	121888-68-4	5%	0.00652%
			Calcium chloride	6410-41-9	1%	8E-05%
			Cobalt acetate	10043-52-4	0.1%	0%
			Complex alkylamine	71-48-7	10%	0.00361%
			Crystalline silica, quartz	Proprietary	5%	0.00201%
			Crystalline Silica, Quartz	14808-60-7	100%	16.28215%
			Cured acrylic resin	14808-60-7	0.1%	0.00013%
			Enzyme	Confidential	30%	0.00234%
			Ethylene glycol	Confidential	5%	0.00038%
			Ethylenediaminetetraacetic acid, tetrasodium salt	107-21-1	30%	0.01613%
			Fatty acids, tall oil	64-02-8	0.01%	0%
			Glassy calcium magnesium phosphate	Confidential	30%	0.00096%
			Guar gum	65997-17-3	100%	0.0167%
			Methanol	9000-30-0	100%	0.13049%
			Monooethanolamine borate	67-56-1	60%	0.00192%
			NFIDB: FE Acid > 10%	26038-87-9	100%	0.05377%
			NFIDB: NA	NFIDB: FE Acid > 10%	100%	1.85593%
			Olefins	NFIDB: NA	100%	2.62764%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl- omega -hydroxy-	Confidential	5%	0.00038%
			Propargyl alcohol	61827-42-7	30%	0.01207%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	107-19-7	10%	0.00032%
			Silica gel	68527-49-1	30%	0.00096%
			Sodium bicarbonate	112926-00-8	1%	0.0013%
			Sodium chloride	144-55-8	0.01%	0%
			Surfactant mixture	7647-14-5	30%	0.00017%
			Tributyl tetradecyl phosphonium chloride	Confidential	1%	0.00261%
			Walnut hulls	81741-28-8	10%	0.00389%
			Water	NA	100%	0.00755%
				7732-18-5	100%	0.13694%
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: Chastity Jackson		Title: Regulatory Analyst		
Date: 6/2/2015						
E-mail Address: cjackson@conchoresources.com						