

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: 30-015-42477 2. Well Name: PILUM 15 FEE #001H 3. Well Number: 001H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:D Lot:D Section:22 Township:18S Range:26E Feet from:400 N/S Line:N Feet from:330 E/W Line:W 5. Bottom Hole Location: Unit:I Lot:I Section:15 Township:18S Range:26E Feet from:2299 N/S Line:N Feet from:361 E/W Line:W 6. latitude: longitude: 32.7395199295357 - 104.3772464112 7. County: Eddy				
8. Operator Name and Address: COG OPERATING LLC		9. OGRID: 229137				
		10. Phone Number: 432-685-4332				
11. Last Fracture Date: 11/4/2015 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 3250		14. Gross Fractured Interval: 3,293 ft to 7,802 ft				
15. True Vertical Depth (TVD): 2,713 ft		16. Total Volume of Fluid Pumped: 2,156,322 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%	76.95296%
HYDROCHLORIC ACID	Halliburton	Base Fluid	NA	NA	0%	0%
BC-140 X2, BE-9, FE-2A, HpH BREAKER, LOSURF-360, M	Halliburton	Additive, Biocide, Breaker, Gelling Agent, Initiator, pH Control Additive, Scale Preventer, Surfacta	NA	NA	0%	0%
			1,2-Benzisothiazolin-3-one	2634-33-5	0.1%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfur-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0.1%	5E-05%
			Alkane	Confidential	1%	0.00039%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	5%	0.00753%
			C.I. Pigment Red 5	6410-41-9	1%	8E-05%
			Calcium chloride	10043-52-4	0.1%	0%
			Citric acid	77-92-9	60%	0.02782%
			Complex alkylamine	Proprietary	5%	0.00194%
			Crystalline silica, quartz	14808-60-7	30%	0.00248%
			Crystalline Silica, Quartz	14808-60-7	0.1%	0.00015%
			Cured acrylic resin	Confidential	30%	0.00256%

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Hydraulic Fracturing Fluid Disclosure

Enzyme	Confidential	5%	0.00042%
Ethylene glycol	107-21-1	30%	0.01385%
Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01%	0%
Glassy calcium magnesium phosphate	65997-17-3	100%	0.01795%
Guar gum	9000-30-0	100%	0.15058%
Hydrochloric acid	7647-01-0	60%	1.2137%
Monoethanolamine borate	26038-87-9	100%	0.04617%
NFIDB:NA	NFIDB:NA	100%	20.6621%
Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.01166%
Silica gel	112926-00-8	1%	0.00151%
Sodium bicarbonate	144-55-8	0.01%	0%
Sodium chloride	7647-14-5	30%	0.00029%
Sodium hydroxide	1310-73-2	30%	0.00388%
Surfactant mixture	Confidential	1%	0.00301%
Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00404%
Walnut hulls	NA	100%	0.00826%
Water	7732-18-5	100%	2.16266%

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: _____	Printed Name: _____	Title: _____
Date: _____		
E-mail Address: _____		

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.