

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: 30-015-36273				
		2. Well Name: PURDY 8 FEDERAL #001				
		3. Well Number: 001				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒Original ☐Amendment		4. Surface Hole Location: Unit:A Lot:A Section:8 Township:23S Range:26E Feet from:1140 N/S Line:N Feet from:1240 E/W Line:E				
		5. Bottom Hole Location: Unit:G Lot: Section:8 Township:23S Range:26E Feet from:1980 N/S Line:S Feet from:720 E/W Line:E				
		6. latitude: longitude: 32.3231857656385 - 104.311099674319				
		7. County: Eddy				
8. Operator Name and Address: COG PRODUCTION, LLC 600 W. Illinois Ave Midland 79701			9. OGRID: 217955		10. Phone Number: 432-685-4372	
11. Last Fracture Date: 9/27/2013 Frac Performed by: Halliburton			12. Production Type: O			
13. Pool Code(s): 73960			14. Gross Fractured Interval: 6,032 ft to 8,880 ft			
15. True Vertical Depth (TVD): 9,750 ft			16. Total Volume of Fluid Pumped: 248,556 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%	83.95316%
FE ACID - <10% HCL	Halliburton	Acid	Hydrochloric acid	7647-01-0	10%	0.29431%
Premium White 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	10.38436%
CRC 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.32138%
			Hexamethylenetetramine	100-97-0	2%	0.04643%
			Phenol / formaldehyde resin	9003-35-4	5%	0.11607%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.01506%
			Monoethanolamine borate	26038-87-9	100%	0.05019%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.01788%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00055%
BE-7™	Halliburton	Biocide	Sodium hydroxide	1310-73-2	2%	0.00092%
			Sodium hypochlorite	7681-52-9	30%	0.01374%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.0347%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.0347%
Iosurf-360w	Halliburton	Surfactant	Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.00027%
			Glycerine	56-81-5	10%	9E-05%
			Complex alkylamine	Confidential Business Information	5%	5E-05%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.01261%
			Silica, amorphous precipitated	67762-90-7	30%	0.00378%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.15559%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00127%
			Walnut hulls	Mixture	100%	0.00422%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.04016%
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: <u>Signed Electronically</u>		Printed Name: <u>Brian Maiorino</u>		Title: <u>Regulatory Analyst</u>		
Date: <u>11/18/2013</u>						
E-mail Address: <u>bmaiorino@concho.com</u>						

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.