

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: 30-015-40464				
		2. Well Name: TUMAK FEDERAL #002				
		3. Well Number: 002				
HYDRAULIC FRACTURING FLUID DISCLOSURE  <input checked="" type="checkbox"/> Original  <input type="checkbox"/> Amendment		4. Surface Hole Location: Unit:M Lot:M Section:14 Township:17S Range:28E Feet from:984 N/S Line:S Feet from:474 E/W Line:W				
		5. Bottom Hole Location: Unit:M Lot:M Section:14 Township:17S Range:28E Feet from:988 N/S Line:S Feet from:916 E/W Line:W				
		6. Latitude: 32.8300551805808 Longitude: - 104.153738921524				
		7. County: Eddy				
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: 11/19/2012 Frac Performed by: Halliburton				12. Production Type: O		
13. Pool Code(s): 96210				14. Gross Fractured Interval: 3,690 ft to 4,950 ft		
15. True Vertical Depth (TVD): 5,424 ft				16. Total Volume of Fluid Pumped: 11,125 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)
Fresh Water	Operator				100%	83.17096%
FE ACID - >10% HCL	Halliburton	Acid	Hydrochloric acid	7647-01-0	30%	2.35784%
Brady Sand - 16/30	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.80101%
CRC-16/30	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.20018%
			Hexamethylenetetramine	100-97-0	2%	0.044%
			Phenol / formaldehyde resin	9003-35-4	5%	0.11001%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.04019%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.04019%
BE-7™	Halliburton	Biocide	Sodium hydroxide	1310-73-2	2%	0.00097%
			Sodium hypochlorite	7681-52-9	30%	0.01462%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00029%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.02045%
			Monoethanolamine borate	26038-87-9	100%	0.06817%
FDP-S1041-12	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00077%
			Ethanol	64-17-5	60%	0.04599%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.02299%
			Naphthalene	91-20-3	5%	0.00383%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00383%
3rd Party Scale Inhibitor	Operator	*3rd Party Additive	*Supplied by Operator		100%	0.0571%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.14543%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00179%
			Walnut hulls	Mixture	100%	0.00598%
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: Brian Maiorino		Title: Regulatory Analyst
Date:		2/6/2013				
E-mail Address:		bmaiorino@concho.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.