

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: 30-015-39720				
		2. Well Name: SHERMAN 4 FEE #004H				
		3. Well Number: 004H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment	4. Surface Hole Location: Unit:P Lot:P Section:4 Township:19S Range:26E Feet from:150 N/S Line:S Feet from:1040 E/W Line:E					
	5. Bottom Hole Location: Unit:A Lot:1 Section:4 Township:19S Range:26E Feet from:353 N/S Line:N Feet from:959 E/W Line:E					
	6. latitude: longitude: 32.6829754955388 - 104.381803850237					
	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: 6/28/2013 Frac Performed by: Halliburton			12. Production Type: O			
13. Pool Code(s): 3250			14. Gross Fractured Interval: 3,280 ft to 7,570 ft			
15. True Vertical Depth (TVD): 3,018 ft			16. Total Volume of Fluid Pumped: 1,813,925 gals			
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%	84.81643%
FE ACID - >10% HCL	Halliburton	Acid	Hydrochloric acid	7647-01-0	30%	1.69701%
100 Mesh	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	0.2526%
Brown - 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.11586%
CRC 16/30	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	1.82016%
			Hexamethylenetetramine	100-97-0	2%	0.0364%
			Phenol / formaldehyde resin	9003-35-4	5%	0.09101%
LOSURF-360W, 330 GA	Halliburton				100%	0%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00012%
BE-7™	Halliburton	Biocide	Sodium hydroxide	1310-73-2	2%	0.00101%
			Sodium hypochlorite	7681-52-9	30%	0.01516%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.0173%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.0173%
LCA-1	Halliburton	Solvent	Paraffinic solvent	Confidential Business Information	100%	0.00022%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.01969%
			Monoethanolamine borate	26038-87-9	100%	0.06564%
CAT 106	Halliburton				100%	0%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.13028%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00017%
K-35	Halliburton	Additive	Sodium carbonate	497-19-8	100%	0.00028%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00132%
			Walnut hulls	Mixture	100%	0.00438%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01718%
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: 10/2/2013						
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.