

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. 30-015-37479				
		2. Well Name: JHS FEDERAL #001H				
		3. Well Number: 001H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:H Lot:H Section:23 Township:26S Range:25E Feet from:1600 N/S Line:N Feet from:790 E/W Line:E				
		5. Bottom Hole Location: Unit:A Lot: Section:26 Township:26S Range:25E Feet from:1018 N/S Line:N Feet from:801 E/W Line:E				
		6. Latitude: 32.0308394803825 longitude: - 104.360356790606				
		7. County: Eddy				
8. Operator Name and Address: COG OPERATING LLC 550 W TEXAS SUITE 1300 MIDLAND 79701		9. OGRID: 229137		10. Phone Number:		
11. Last Fracture Date: 3/30/2012 Frac Performed by: Halliburton		12. Production Type: G				
13. Pool Code(s): 81340		14. Gross Fractured Interval: 5,512 ft to 9,721 ft				
15. True Vertical Depth (TVD): 5,343 ft		16. Total Volume of Fluid Pumped: 67,396 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				0%	0%
HYDROCHLORIC ACID 5-10%	Halliburton	Solvent	Hydrochloric acid	7647-01-0	10%	2.31362%
SAND - PREMIUM BROWN	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.93158%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	1.21336%
			Hexamethylenetetramine	100-97-0	2%	0.02427%
			Phenol / formaldehyde resin	9003-35-4	5%	0.06067%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.01067%
			Monoethanolamine borate	26038-87-9	100%	0.03557%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.0001%
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00086%
			Ethanol	64-17-5	60%	0.05143%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.02571%
			Naphthalene	91-20-3	5%	0.00429%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00429%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.00514%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.00514%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.03871%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00377%
CLA-WEB™	Halliburton	Additive	Ammonium salt	Confidential Business Information	50%	0.01468%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	9E-05%
FR-38	Halliburton	Friction Reducer	Acetic acid	64-19-7	5%	0.00136%
			Ammonium sulfate Inorganic Salt	Confidential Business Information	30%	0.00818%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.0015%
			Walnut hulls	Mixture	100%	0.00499%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.12914%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	9E-05%
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00232%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01247%
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl)azo]-, trisodium salt	915-67-3	0%	0%
			Acrylamide copolymer	Proprietary	0%	0%
			Amine Salt	Confidential Business Information	0%	0%
			Amine Salts	Confidential Business Information	0%	0%
			Amine Salts	Confidential Business Information	0%	0%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			C.I. Pigment Red 5	6410-41-9	0%	0%
			Calcium chloride	10043-52-4	0%	0%
			Crystalline Silica, Quartz	14808-60-7	0%	0%
			Cured Acrylic Resin	Confidential Business Information	0%	0%
			Cured Acrylic Resin	Confidential Business Information	0%	0%
			Defoamer	Proprietary	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Glycerine	56-81-5	0%	0%
			Modified acrylamide copolymer	Proprietary	0%	0%
			Modified acrylate polymer	Proprietary	0%	0%
			Oxyalkylated Phenolic Resin	Confidential Business Information	0%	0%
			Oxyalkylated Phenolic Resin	Confidential Business Information	0%	0%
			Quaternary Amine	Confidential Business Information	0%	0%
			Quaternary Amine	Confidential Business Information	0%	0%
			Quaternary Amine	Confidential Business Information	0%	0%
			Silica gel	112926-00-8	0%	0%
			Silica, amorphous - fumed	7631-86-9	0%	0%
			Sodium acetate	127-09-3	0%	0%
			Sodium Chloride	7647-14-5	0%	0%
			Surfactant Mixture	Confidential Business Information	0%	0%
			Surfactant Mixture	Confidential Business Information	0%	0%
			Trimethylamine, N-oxide	1184-78-7	0%	0%
			Water	7732-18-5	0%	0%
			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: Stormi Davis		Title: Regulatory Analyst		
Date: 5/22/2012						
E-mail Address: sdavis@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.