

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: 30-025-40390			
			2. Well Name: REDHEAD 31 FEDERAL #001H			
			3. Well Number: 001H			
HYDRAULIC FRACTURING FLUID DISCLOSURE <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment			4. Surface Hole Location: Unit:D Lot:1 Section:31 Township:24S Range:32E Feet from:330 N/S Line:N Feet from:990 E/W Line:W			
			5. Bottom Hole Location: Unit:M Lot:4 Section:31 Township:24S Range:32E Feet from:383 N/S Line:S Feet from:989 E/W Line:W			
			6. Latitude: 32.1801400499034 Longitude: - 103.719793421548			
			7. County: Lea			
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: 3/24/2013 Frac Performed by: Halliburton			12. Production Type: O			
13. Pool Code(s): 97899			14. Gross Fractured Interval: 10,620 ft to 14,670 ft			
15. True Vertical Depth (TVD): 10,467 ft			16. Total Volume of Fluid Pumped: 53,774 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%	82.32066%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.25351%
CRC Premium - 30/50	Halliburton				100%	14.64654%
FR-38	Halliburton	Friction Reducer	Acetic acid Ammonium sulfate Inorganic Salt	64-19-7 Confidential Business Information	5% 30%	0.00066% 0.00397%
LOSURF-360W	Halliburton				100%	0%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.02295%
CLA-WEB™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02717%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.0039%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.03768%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00149%
			Potassium metaborate	13709-94-9	60%	0.01791%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00799%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.0081%
			Silica, amorphous precipitated	67762-90-7	30%	0.00243%
3rd Party Scale Inhibitor	Operator	*3rd Party Additive	*Supplied by Operator		100%	0.00263%
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00135%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.17273%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00108%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00863%
			Crystalline silica, quartz	14808-60-7	30%	0.00259%
Scalechek® SCP -2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.02404%
3rd Party Additive	Operator	*3rd Party Additive	*Supplied by Operator		100%	0.02404%
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: Kacie Connally		Title: Permitting Tech - NM		
Date: 4/24/2013						
E-mail Address: kconnally@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.