

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. 30-015-39314				
		2. Well Name: BURCH KEELY UNIT #512				
		3. Well Number: 512				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:C Lot:C Section:13 Township:17S Range:29E Feet from:990 N/S Line:N Feet from:2310 E/W Line:W				
		5. Bottom Hole Location: Unit:C Lot:C Section:13 Township:17S Range:29E Feet from:990 N/S Line:N Feet from:2310 E/W Line:W				
		6. latitude: longitude: 36.9324789429806 - 108.101778633573				
		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: 2/7/2012 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 97918		14. Gross Fractured Interval: 4,230 ft to 4,480 ft				
15. True Vertical Depth (TVD): 4,640 ft		16. Total Volume of Fluid Pumped: 173,609 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				100%	84.37186%
FE ACID - >10% HCL	Halliburton		Hydrochloric acid	7647-01-0	30%	0.34446%
Brady Sand 16/30	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.29369%
CRC-16/30	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.80234%
			Hexamethylenetetramine	100-97-0	2%	0.05605%
			Phenol / formaldehyde resin	9003-35-4	5%	0.14012%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.02017%
			Monoethanolamine borate	26038-87-9	100%	0.06722%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00032%
LoSurf-300D	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00064%
			Ethanol	64-17-5	60%	0.03857%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.01929%
			Naphthalene	91-20-3	5%	0.00321%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00321%
BE-7™	Halliburton	Biocide	Sodium hydroxide	1310-73-2	2%	0.00076%
			Sodium hypochlorite	7681-52-9	30%	0.01142%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.02161%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.02161%
CAT-106	Halliburton				100%	0%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00184%
			Walnut hulls	Mixture	100%	0.00615%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.01171%
K-35	Halliburton	Additive	Sodium carbonate	497-19-8	100%	0.15798%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00141%
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>Chasity Jackson</u>		Title: <u>Regulatory Analyst</u>		
Date: <u>11/22/2013</u>						
E-mail Address: <u>cjackson@conchoresources.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.