Comparable Com	Submit within 45 days of		State of New Mexico			Revised February 15, 2012				
Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505	well completion		Energy, Minerals and			The state of the s				
Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505										
1220 S. St Francis Dr. Santa Fe, NM 87505 3. Well Number: 851 5. Surface Note Location: Until B Let B scation: 18 Township: 17 S. Range: 30E Feet from 190										
Amended						- 170			301	
Marchael Company Com										
Amended	HYDRAULIC FRACTURING FLUID DISCLOSURE					Unit:B Lot:B Section:18 Township:17S Range:30E				
Amended	⊠ Original					Feet from:1650 E/W Line:E				
Part	☐ Amended					CONTROL OF CONTROL OF TAXABLE OF				
C. latitude	MAY ESSES									
Second Part										
Record Part						32.8391679219205 -				
Second S										
S. Operator Name and Address:										
COG OPERATING LLC										
S50 W TEXAS SUITE 1300 MIDLAND 79701 11. Last Fracture Date: 2/8/2012 Frac Performed by: Halliburton 12. Production Type:			LC							
MIDLAND 79701	550 W T	EXAS							***	
11. Last Fracture Date: 2/8/2012 Frac Performed by: Halliburton 12. Production Type: 28509 14. Gross Fractured Interval: 4.250 ft to 4,600 ft 15. True Vertical Depth (TVD): 4.680 ft 16. Total Volume of Fluid Fumped: 3,622 bbls 17. HYDRAULG FLUID COMPOSITION AND CONCENTRATION: 16. September 10.	N. 17 (17 (4)									
13. Pool Code(s) 28509						12. Production Type:				
16. Total Volume of Fluid Pumped:	13. Pool Code(s):									
1,680 ft 1,7 HYDRAULIC FLUID COMPOSITION AND CONCENTRATION: Trade Name	28509									
Name	4,680 ft									
Water					1000	n Chamiaal	Bai			
Water	Trade Name	Supplier	Purpose	ingredients	Abstra		Concentration in		Ingredient Concentration in HF	
10-30% Brady Sand 16/30 Halliburton CRC-16/30 Halliburton Ethylene Glycol 107-21-1 30% 0.01949%	Water	Operator					100	0%		
CRC-16/30 Halliburton Breaker Halliburton Breaker LoSurf-300D Halliburton Halliburton Breaker LoSurf-300D Halliburton Halliburton Breaker Halliburton Breaker Halliburton Surfactant Ethylene Glycol 107-21-1 30% 0.01949% 0.06497% 0.06497% 0.06497% 0.06497% 0.00497% 0.00497% 0.00497% 0.00497% 0.00497% 0.00497% 0.00499% 0	10-30%		20. 12.200.200	Hydrochloric Acid	7647-	-01-0	-		1933/33 201 25/30	
BC-140 X2										
High Breaker Halliburton Breaker Sodium Chloride 7647-14-5 30% 0.0018%			1000 000000	Ethylene Clycol	107-2	01_1		_		
High Breaker Halliburton Breaker Sodium Chloride 7647-14-5 30% 0.00018%	BC-140 AZ	Hallibuito	III IIIII atoi					_		
LoSurf-300D				Borate						
Surfactant Ethanol 64-17-5 60% 0.04699% 10.0235% 0.0235% 0.0235% 0.0235% 0.0235% 0.0235% 0.0235% 0.0235% 0.0235% 0.0235% 0.0235% 0.0235% 0.0235% 0.0235% 0.00392% 0.003								_		
Ethano 64-17-5 60% 0.04699% Heavy aromatic petroleum naptha Napthalene 91-20-3 5% 0.00392% Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-branched Sodium hydroxide 1310-73-2 2% 0.00107% Sodium 7681-52-9 30% 0.01602% Polycoxy-branched Sodium hydroxide 1310-73-2 2% 0.00107% Sodium 7681-52-9 30% 0.01602% Polycoxy-branched Polycoxy-br	LOSUN-300D	нашвито			95-63	3-6		1%	0.00078%	
Potroleum naptha Napthalene 91-20-3 5% 0.00392%			Canadiani		64-17	7-5	60	0%	0.04699%	
Napthalene 91-20-3 5% 0.00392%				Heavy aromatic	6474	2-94-5	30	0%		
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-branched 1310-73-2 2% 0.00107%										
BE-7								_		
BE-7					12/0	87-87-0		0%	0.00392%	
BE-7										
BE-7										
Sodium Total Total Sodium Total Total Sodium Hypochlorite SUPERSET W Halliburton Activator Methanol 67-56-1 60% 0.00445%	DE 7	Halliburta	n Discide		1210	72.2	,	20/	0.001070/	
SUPERSET W Halliburton Activator Methanol 67-56-1 60% 0.00445%	DE-1	nailiburto	Blocide					_		
Ethoxylated nonlphenol Business Information 3rd Party Scale Inhibitor Operator Additive Operator OPTIFLO-HTE Halliburton Breaker Crystalline Silica, Quartz Walnut Hulls Mixture 100% 0.00231% WG-36 Gelling Agent BE-6 Halliburton Biocide 2-Bromo-2-nitro-1,3-porpanediol 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. Ethoxylated Confidential 60% 0.00445% Business Information 0.00487% Wo-36 Felling Agent Palliburton Gelling Agent 0.00069% WG-36 Gelling Agent 0.00069% 0.00069% WG-36 Gell					. 551				5.5 7552 76	
Recomplement Reco	SUPERSET W	Halliburto	n Activator		_					
Signature: Signed Electronically Supplied by Suppl					1,1000		60	0%	0.00445%	
3rd Party Scale Operator 3rd Party Supplied by Operator OPTIFLO-HTE Halliburton Breaker Crystalline Silica, Quartz Walnut Hulls Mixture 100% 0.00231%				noniprienoi						
OPTIFLO-HTE Halliburton Breaker Crystalline Silica, Quartz Walnut Hulls Mixture 100% 0.00231% WG-36 Gelling Agent Palliburton Biocide 2-Bromo-2-nitro-1,3-porpanediol 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: Debora Wilbourn Operations Assistant	3rd Party Scale	Operator	3rd Party	Supplied by		i duoii	100	0%	0.0487%	
WG-36 Gelling Halliburton Gelling Agent September 100% Debora Wilbourn Operations Assistant Quartz Walnut Hulls Mixture 100% 0.00231%				•				201		
WG-36 Gelling Agent Guar Gum 9000-30-0 100% 0.16981% BE-6 Halliburton Biocide 2-Bromo-2-nitro- 1,3-porpanediol 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: Title: Debora Wilbourn Operations Assistant	OPTIFLO-HTE	Halliburto	n Breaker		1480	8-60-7	30	0%	0.00069%	
Agent Agent Section Agent Sect	WO 20 C-111-	Hallibard	n Callina					_		
BE-6 Halliburton Biocide 2-Bromo-2-nitro- 1,3-porpanediol 1,3-porpanediol 1,3-porpanediol 1,3-porpanediol 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: Title: Debora Wilbourn Operations Assistant			Agent		9000-	-30-0	100	J%	0.16981%	
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: Title: Debora Wilbourn Operations Assistant	BE-6 MICROBIOCIDE	100 50 7 9 00 50 50 50 50	n Biocide	1,3-porpanediol	0.0000000000000000000000000000000000000					
Debora Wilbourn Operations Assistant		ereby certify t	hat the information		form is	true and con	plete to the best of	my l	nowledge and belief.	
	Signature: S	igned Elec	tronically							
Date. 4/13/2012	Date: 4	/13/2012		Debora Will	oourn		Operat	ions	3 Assistant	

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.

dwilbourn@conchoresources.com

E-mail Address: