Energy, Minerals and Natural Resources	Submit within 45 da	ys of				Revised February 15, 2012				
Natural Resources 2 2 2 2 3 3 3 3 3 4 3 3 3 3	well completion									
Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505										
Note										
Amendment	1220 S. St Francis Dr.									
North List Section 16 Township 265 Range 27E	Santa Fe, NM 87505									
X Original	HYDRAULIC FRACTURING FLUID DISCLOSURF						Surface Hole Location: Unit:L Lot:L Section:16 Township:26S Range:27E			
Amendment						Feet from: 1887 N/S Line:S				
Rest twon 1340 Nor Lune S Rest twon 1351 EW Line E						5. Bottom Hole Location:				
Reserve	☐ Amendmen	t								
8. Operator Name and Address: COG OPERATING LC OOK Willington Services of Middland 79701 11. Lest Fracture Date: 1772013 Frac Performed by: Halliburton O 13. Pool Cosely: 7,7589 tt 1772013 Frac Performed by: Halliburton O 14. Cross Fracture Interval: 7,724 th or 11,862 ft 7,7589 tt 7,7589 t						Feet from:351 E/W Line:E				
8. Cparation Name and Address: CDC OPERATING LLC CDC OPERATING CDC OPERATING LLC CDC OPERATING LCC CDC							2.04026104		ongitude:	
8. Operator Name and Address COG OPERATING LLC One Concho Center 600 W. Illinois Ave Midiand 79701 11. Leaf Fracture Date 1. 17/2013 Frac Performed by: Halliburton 12. Production Type: 13. Pool Corte(s) 64010 15. True Vertical Depth (TVD): 7. 688 ft 17. HYDRAULC FLUID COMPOSTION AND CONCENTRATION: Trade Name Supplier Purpose Ingredients (CAS #) Chemical Additive (% by mass) Fresh Water Fresh Water Fresh Water Fresh Water Fresh Water Fresh Halliburton COCCENTRATION: Trade Name Supplier Purpose Ingredients (CAS #) Chemical Additive (% by mass) Fresh Water Fresh Water Fresh Water Fresh Water Fresh Water Fresh Halliburton COCCENTRATION: Trade Name Supplier Purpose Ingredients (CAS #) Chemical Additive (% by mass) Fresh Water Fresh Water Fresh Water Fresh Halliburton COCCENTRATION: Trade Name Supplier Purpose Ingredients (CAS #) Chemical Additive (% by mass) Fresh Water Fresh Water Fresh Water Fresh Water Fresh Water Fresh Halliburton COCCENTRATION: Trade Name COCCENTRATION: Trade Name Note Halliburton COCCENTRATION: Trade Name Note Halliburton COCCENTRATION: Trade Name Note Halliburton Davido COCCENTRATION: Trade Name Note Halliburton Note Halliburton Coccentration in Halliburton Note Halliburton Coccentration in Halliburton Coccentration in Halliburton Note Halliburton Note Halliburton Note Halliburton Coccentration in Halliburton Coccentration in Halliburton Note Halliburton Note Halliburton Coccentration in Halliburton Note Halliburton Coccentration in Halliburton Coccentration in Halliburton Note Halliburton					L		2.0402010		104.203042930607	
8. Operator Name and Address:										
COG OPERATING LLC	Onerstor Name ar	ad Address								
600 W. Illinois Ave Midland 79701 11. Last Fracture Date: 1/7/2013 Frac Performed by: Halliburton 12. Production Type:	COG OP	ERATING LLO	C							
Midland 79701 12 Production Type:	25-74-12-25-25-25-25-25-25-25-25-25-25-25-25-25					DIE				
13. Pool Code(s): 64010 7.724 ft to 11,862 ft 7.724 ft	Midland	79701								
13. Pool Code(s) 14. Gross Fractured Interval 7.724 ft to 11 862 ft 7. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:	11. Last Fracture Dat	te: 1/7/2013	Frac Perform	ned by: Halliburton						
15. Trus Vartical Depth (TVD):						14. Gross Fractured Interval:				
7.688 ft 1.7 HYDRAULC FLUID COMPOSITION AND CONCENTRATION: Ingredients Ingredient Ingr		oth (TVD):								
Trade Name	7,688 ft									
Presh Water					ICAS:	#\ Chemical	Maximum Ir	nredient	Maximum	
Fresh Water	Have hame	Juppines	пирозс	Ingrediens	Abstra		Concentrati	on in	Ingredient	
FE.ACID -<10% Halliburton Solvent Hydrochloric acid 7647-01-0 10% 2.00312% 100% 2.00312% 100% 2.00312% 100% 2.00312% 100% 2.00312% 100% 2.00312% 100% 2.00312% 100% 2.00312% 100% 2.00312% 100% 2.00312% 100% 2.00312% 100% 2.00312% 100% 2.00312% 100% 1.00222% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011% 100% 1.000011%					#		Additive		Fluid (% by mass)	
Holiburton Halliburton			Solvent	⊔vdrochloric acid	7647	-01-0			86.38837% 2.00312%	
20/40	HCL		Solvent	Hydrocillone acid	704.	-0 1-0		1070	2.003 1270	
High Breaker Halliburton Breaker Sodium chloride 7647-14-5 30% 0.00011%		Halliburton						100%	9.94498%	
BC-140 X2					17				1.09222%	
SUPERSET W Halliburton Activator Ethoxylated Information Reducer Ammonium sultate Inorganic Salt BE-9 Halliburton Biocide FDP-S1011-11 Halliburton Additive CLA-WEB™ Halliburton Additive CLA-WEB™ Halliburton CCA-WEB™ Ha										
SUPERSET W	DO-140 //2	1 Idhibuitor.	muator	Monoethanolamine						
FR-38	SUPERSET W	Halliburton	Activator		67-56	5-1		60%	0.01342%	
FR-38								60%	0.01342%	
FR-38				nonyipnenoi						
Inorganic Salt Business Information	FR-38	Halliburton	V		64-19	9-7				
CLA-STA XP ADDITIVE Halliburton Stabilizer Clay Stabilizer Polyepichlorohydrin, trimethyl amine quaternized BE-9 Halliburton Biocide Fiributyl tetradecyl phosphonium chloride FDP-S1011-11 Halliburton Friction Reducer petroleum distillate MO-67 Halliburton PH Control Sodium hydroxide Additive CLA-WEB™ Halliburton Additive Ammonium salt Densitions Information Formation Signed Electronically Printed Name: Kacie Connally Title: Permitting Tech Firster No.003494 10.003944 10.003944 10.003944 10.003944 10.003944 10.003944 10.003944 10.003944 10.0039344 10.003944 10.0			Reducer					30%	0.01205%	
ADDITIVE Stabilizer trimethyl amine quaternized BE-9 Halliburton Biocide Tributyl tetradecyl phosphonium chloride FDP-S1011-11 Halliburton Friction Reducer petroleum distillate				505 AT 00000000000	Inform	mation				
BE-9 Halliburton Biocide Tributyl tetradecyl phosphonium chloride FDP-S1011-11 Halliburton Reducer Petroleum distillate MO-67 Halliburton PH Control Additive Ammonium salt Confidential Business Information GLA-WEB™ Halliburton Additive Ammonium salt Confidential Business Information GPTIFLO-HTE Halliburton Breaker Crystalline silica, quartz Walnut hulls Mixture 100% 0.0027% Walnut hulls Mixture 100% 0.00421% WG-36 GELLING Halliburton Agent Scale Calechek® SCP Halliburton Scale Preventer Scale Inhibitor GPTIFLO-HTE Halliburton Scale Preventer Scale Preventer Preventer Signed Electronically Printed Name: Kacie Connally Title: Permitting Tech		Halliburton			5183	8-31-4		60%	0.08394%	
Phosphonium chloride Phosphonium chloride Phydrotreated light petroleum distillate Phydrotreated light petroleum distillated light	ADDITIVE		Stabilizer	The state of the s						
Chloride Chloride Firction Reducer Pydrotreated light Detroleum distillate Detroleum di	BE-9	Halliburton	Biocide		8174	1-28-8		10%	0.00414%	
Reducer petroleum distillate MO-67 Halliburton pH Control Additive CLA-WEB™ Halliburton Additive Ammonium salt Confidential Business Information 3rd Party Scale Inhibitor OPTIFLO-HTE Halliburton Breaker Crystalline silica, quartz Walnut hulls Mixture 100% 0.00396% OptiKleen-WF™ Halliburton Concentrate Sodium perborate tetrahydrate WG-36 GELLING Halliburton Scale Agent Scale Inhibitor WG-36 GELLING Halliburton Scale Reserventer Preventer Preventer Phosphate 3rd Party Additive Operator *3rd Party				chloride						
MO-67 Halliburton Additive Ammonium salt Confidential Business Information 3rd Party Scale Inhibitor OPTIFLO-HTE Halliburton Additive Additive Additive Operator OPTIFLO-HTE Halliburton Concentrate Etatahydrate Halliburton Agent Scale Inhibitor Optikleen-WF™ Halliburton Concentrate Scale Cale Inhibitor Operator Agent Scale Cale Inhibitor Operator Agent Scale Inhibitor Operator Optikleen-We Additive Operator Optikleen-We Additive Operator Optikleen-We Additive Operator Optikleen-We Agent Scale Cale Inhibitor Operator Optikleen-We Agent Scale Cale Operator Optikleen-We Agent Operator Operator Optikleen-We Additive Operator	FDP-S1011-11	Halliburton			64742-47-8			30%	0.02807%	
CLA-WEB™ Halliburton Additive Ammonium salt Confidential Business Information 100% 0.02415%	MO-67	Halliburton	pH Control		1310	-73-2		30%	0.00271%	
Business Information	CLA-WEB™	Halliburton		Ammonium salt	Confi	dential		50%	0.02415%	
3rd Party Scale Inhibitor Operator *3rd Party Additive *Supplied by Operator 100% 0.0027% OPTIFLO-HTE Inhibitor Halliburton Breaker Quartz Walnut hulls Crystalline silica, quartz Walnut hulls 14808-60-7 30% 0.00119% OptiKleen-WF™ Halliburton Concentrate Sodium perborate tetrahydrate 10486-00-7 100% 0.00421% WG-36 GELLING AGENT Halliburton Agent Gelling Agent Guar gum 9000-30-0 100% 0.10363% Scale Cale Inhibitor Preventer Glassy calcium magnesium phosphate 65997-17-3 100% 0.01916% 3rd Party Additive Operator *Supplied by Operator 100% 0.01916% 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	ob the	riambarton	riadiaro	- Innoversal	Busir	ness		0070	0.021107	
Inhibitor	3rd Party Scale	Operator	*3rd Party	*Supplied by	Inforn	nation		100%	0.0027%	
quartz Walnut hulls Mixture 100% 0.00396% OptiKleen-WF™ Halliburton Concentrate Sodium perborate tetrahydrate WG-36 GELLING Halliburton Gelling Agent Scalechek® SCP Halliburton Scale Preventer Preventer Magnesium phosphate 3rd Party Additive Operator Additive Operator Signature: Signed Electronically Printed Name: Kacie Connally Title: Permitting Tech	Inhibitor		Additive	Operator	44000 00 7		187.00			
Walnut hulls Mixture 100% 0.00396% OptiKleen-WF™ Halliburton Concentrate Sodium perborate tetrahydrate 10486-00-7 100% 0.00421% WG-36 GELLING AGENT Halliburton Gelling Agent Guar gum 9000-30-0 100% 0.10363% Scalechek® SCP Halliburton -2 Scale Inhibitor Scale Preventer Glassy calcium magnesium phosphate 65997-17-3 100% 0.01916% 3rd Party Additive Operator *3rd Party Additive *Supplied by Operator 100% 0.01916% 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 Signed Electronically Printed Name: Kacie Connally Title: Permitting Tech	OPTIFLO-HTE	Halliburton	Breaker	The state of the s	1480	8-60-7		30%	0.00119%	
tetrahydrate WG-36 GELLING Halliburton Agent Scalechek® SCP Halliburton Preventer Magnesium phosphate 3rd Party Additive Operator Additive Operator Additive Operator Signature: Signed Electronically Printed Name: Kacie Connally tetrahydrate 9000-30-0 100% 0.10363% 0.10		******		Walnut hulls	_					
WG-36 GELLING Halliburton Agent Scale Connally Printed Name: Kacie Connally Gelling Agent Scale Connally Gelling Agent Scale Plants Gelling Agent Scale Plants Gelling Agent Scale Preventer Prevent	OptiKleen-WF™	Halliburton	Concentrate		1048	6-00-7		100%	0.00421%	
Scalechek® SCP Halliburton Scale Preventer Pre		Halliburton			9000	-30-0		100%	0.10363%	
-2 Scale Inhibitor Preventer magnesium phosphate 3rd Party Additive Operator *3rd Party Additive Operator Operator Printed Name: Kacie Connally Title: Permitting Tech		Halliburton	_	Glassy calcium	6599	7-17-3		100%	0.01916%	
3rd Party Additive Operator *3rd Party Additive Operator Operator Operator Signature: Signed Electronically Printed Name: Kacie Connally Title: Permitting Tech				magnesium						
Additive Operator 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	3rd Party Additive	Operator	*3rd Party					100%	0.01916%	
Signature: Signed Electronically Printed Name: Kacie Connally Title: Permitting Tech			Additive	Operator						
	A10 60 10	E .						181		
ZI 13/ZU 13										

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.