Submit within 45 days of well co	completion C4-4 f No Na					Ī		Revised November 6, 2013	
	State of New Mexico					1. WELL API NO.			
	En	Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr.					30-025-42945 2. Well Name: VAST STATE #004H		
	Santa Fe, NM 87505					3. Well Number: 004H			
HYDRAULIC FF	RACTURING		<u></u>			4. Surface Hole Lo		200	
DISCLOSURE						Unit:O Lot:O Section:17 Township:26S Range:33E Feet from:210 N/S Line:S Feet from:1650 E/W Line:E			
⊠ Original						5. Bottom Hole Lot Unit:B Lot:B	Section:17 T	ownship:26S Range:33E	
□ Amendment						Feet from:248 Feet from:1643 6. latitude:	E	/S Line:N /W Line:E longitude:	
							683317	-103.5910775	
						Lea			
 Operator Name and Address: COG OPERATING 	LLC			9.	OGRID:	229137	10. Phone Numb	er: 432-685-4332	
One Concho Cente 600 W. Illinois Ave Midland 79701	r								
	2016 Frac Performed	by: Halliburton		1:	2. Production O	Type:			
13. Pool Code(s): 97900					14. Gross Fractured Interval: 9,432 ft to 13,760 ft				
15. True Vertical Depth (TVD): 9,281 ft					16. Total Volume of Fluid Pumped: 9,950,255 gals				
 Total Volume of Re-Use Water N/A 				1:	8. Percent of	Re-Use Water in Flu of Disclosed	uid Pumped:		
19. HYDRAULIC FLUID Trade Name	COMPOSITION A	AND CONCENTRA	TION:	(CAS#) Chemical	17,7111111	Maximum Ingredi	ent	Maximum Ingredient	
	12.2.2.2			Service #	nusudCl	Maximum Ingredi Concentration in mass)	Additive (% by	Concentration in HF Fluid (% by mass)	
Fresh Water Cla-Web(TM) II	Operator Halliburton	Base Fluid Clay Stabilizer	Water Listed Below	7732-18-5 Listed Below		<i>y</i>	100% 0%	89.98706% 0%	
DCA-23003 FDP-S1226-15	Halliburton Halliburton	Friction Reducer Surfactant	Listed Below Listed Below	Listed Below Listed Below			0% 0%	0% 0%	
FE-1A ACIDIZING	Halliburton	Additive	Listed Below	Listed Below		0%		0%	
COMPOSITION FE-2A	Halliburton	Additive	Listed Below	Listed Below		0%		0%	
HAI-OS ACID INHIBITOR HYDROCHLORIC ACID	Halliburton Halliburton	Corrosion Inhibitor Solvent	Listed Below Listed Below	Listed Below Listed Below		0% 0%		0% 0%	
OptiKleen-WF(TM)	Halliburton	Concentrate	Listed Below	Listed Below Listed Below			0%	0%	
SAND-COMMON WHITE- 100 MESH, SSA-2, BULK (100003676 SAND-PREMIUM WHITE-	Halliburton	Proppant	Listed Below	Listed Below			0%	0%	
40/70, BULK	Halliburton	Proppant	Listed Below				0%	0%	
Parasorb Scalesorb	Baker Hughes Baker Hughes	Scale Inhibitor Additive	Listed Below Listed Below	Listed Below Listed Below		0% 0%		0% 0%	
Scaletrol MSDS and Non-MSDS	Baker Hughes	Scale Inhibitor	Listed Below	Listed Below			0% 0%	0% 0%	
Ingredients are listed below the							570	070	
Ingredients	Listed Above	Listed Above	Acetic acid Acetic anhydride	64-19-7 108-24-7			60% 100%	0.00265% 0.00442%	
			Acrylamide	79-06-1			0.01%	0%	
			Acrylamide, sodium acrylate polymer	25987-30-8			30%	0.00703%	
			Alcohols, C12-13, ethoxylated	66455-14-9			30%	0.01378%	
			Alcohols, C12-16, ethoxylated	68551-12-2			5%	0.0023%	
			Amine Salts	Proprietary Proprietary			0.1% 1%	5E-05% 0.00054%	
			Ammonium compound	Proprietary			30%	0.01463%	
			Calcium chloride Chlorine compound	10043-52-4 Proprietary			5% 30%	0.00134% 0.01463%	
			Citric acid	77-92-9			60%	0.00276%	
			Crystalline silica, quartz	14808-60-7			100%	9.43397%	
			Crystalline silica: Quartz (SiO2)	14808-60-7			1%	6E-05%	
			Diatomaceous earth, calcined	91053-39-3		S	65%	0.00396%	
			Ethoxylated alcohols Ethoxylated	Proprietary 78330-21-9			30% 5%	0.00021% 0.00117%	
			branched C13 alcohol				0.70	2.5511770	
			Ethylene glycol	107-21-1		<i>y</i>	30%	0.00805%	
			Ethylene oxide Fatty acids, tall oil	75-21-8 Proprietary			0.01% 30%	0% 0.00021%	
			Hydrochloric acid Hydrotreated light	7647-01-0 64742-47-8			60% 30%	0.24922% 0.00703%	
			petroleum distillate Methanol	67-56-1		×	60%	0.00041%	
			Mineral Oil	8042-47-5		K.	30%	0.0011%	
			Olefins Organophosphorous	Proprietary Trade Secret			5% 40%	8E-05% 0.00108%	
			salt Propargyl alcohol	107-19-7		·	10%	7E-05%	
			Quaternary amine	Proprietary			1%	0.00098%	
			Reaction product of acetophenone,	68527-49-1			30%	0.00021%	
			formaldehyde, thiourea and oleic						
	1		acid in dimethyl			1			
			formamide	T174CT T (E1)			2160	12.2211.07400	
				1338-43-8			5%	0.00117%	
			formamide Sobitan, mono-9-	1338-43-8 7647-14-5 126-96-5			5% 1% 5%	0.00117% 0.00049% 0.00117%	

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.

tetrahydrate

Sorbitan monooleate polyoxyethylene derivative

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: Signed Electronically Printed Name: Stormi Davis

Date: 11/3/2016

11/3/2016

Date:

0.00117%

0.52686%

5%

100%

Title: Regulatory Analyst