

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				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		1. WELL API NO: 30-025-42292				
		2. Well Name: BLACK PEARL 1 FEDERAL #001H				
		3. Well Number: 001H				
		4. Surface Hole Location: Unit:A Lot:1 Section:1 Township:20S Range:34E Feet from:190 N/S Line:N Feet from:990 E/W Line:E				
5. Bottom Hole Location: Unit:P Lot:P Section:1 Township:20S Range:34E Feet from:382 N/S Line:S Feet from:653 E/W Line:E		6. latitude: longitude: 32.6091222968265 -103.508520708279				
7. County: Lea						
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: 2/13/2015 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 37570		14. Gross Fractured Interval: 11,107 ft to 15,425 ft				
15. True Vertical Depth (TVD): 11,024 ft		16. Total Volume of Fluid Pumped: 2,850,651 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%	85.48074%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.21013%
CRC Premium 30/50	Halliburton				100%	11.82492%
LOSURF-360W	Halliburton				100%	0%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00201%
			Propargyl alcohol	107-19-7	10%	0.00033%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00418%
Cia-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02812%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polypichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.01479%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00524%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.03794%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.00104%
			Potassium metaborate	13709-94-9	60%	0.0125%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.02769%
			Silica, amorphous precipitated	67762-90-7	30%	0.00831%
Scaletrol (TP)					100%	0%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.08634%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.21187%
BE-6 MICROBIOCID	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	9E-05%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00904%
			Crystalline silica, quartz	14808-60-7	30%	0.00271%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00042%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.0197%
Parasorb (TP)					100%	0.0197%
Ingredients Listed Below This Line Are Part of the			Acetic acid	64-19-7	0%	0%
			Acetic anhydride	108-24-7	0%	0%
			Acrylate polymer	Confidential Business Information	0%	0%
			Alcohols, C14-C15, ethoxylated	68951-67-7	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			Borate salts	Confidential Business Information	0%	0%
			Citric acid	77-92-9	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Fatty acids, tall oil	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Polypropylene glycol	25322-69-4	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium carboxymethyl cellulose	9004-32-4	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium glycolate	2836-32-0	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Trimethylamine, N-oxide	1184-78-7	0%	0%
			Water	7732-18-5	0%	0%
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		Title: Regulatory Analyst		
Date: 3/11/2015						
E-mail Address: sdavis@conchoresources.com						

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