

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 February 15, 2012				
		1. WELL API NO. 30-015-39768				
		2. Well Name: PLU PIERCE CANYON 21 24 30 USA				
		3. Well Number: 001H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:B Lot:B Section:21 Township:24S Range:30E Feet from:130 N/S Line:N Feet from:1940 E/W Line:E				
		5. Bottom Hole Location: Unit:B Lot:B Section:21 Township:24S Range:30E Feet from:130 N/S Line:N Feet from:1940 E/W Line:E				
		6. Iatitude: longitude: 32.2101566135917 - 103.883893551953				
		7. County: Eddy				
8. Operator Name and Address: CHESAPEAKE OPERATING, INC. P.O. Box 18496 Oklahoma City 73154		9. OGRID: 147179		10. Phone Number: 405-935-3782		
11. Last Fracture Date: 5/2/2012 Frac Performed by: Halliburton		12. Production Type: O				
13. Pool Code(s): 97798		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 8,087 ft		16. Total Volume of Fluid Pumped: 62,413 bbls				
17. 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		Carrier/Base Fluid			0%	88.8504%
White Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	7.3541%
CRC		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	98%	1.67835%
			Phenol/Formaldehyde Resin	009003-35-4	5%	0.08563%
			Hexamethylenetetramine (Hexamine)	000100-97-0	1%	0.01713%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	1.00741%
FE ACID	HALLIBURTON	Acid	Hydrochloric Acid	007647-01-0	30%	0.21761%
HAI-OS	HALLIBURTON	Corrosion Inhibitor	Methanol (Methyl Alcohol)	000067-56-1	60%	0.00072%
			Propargyl Alcohol (2- Propynol)	000107-19-7	10%	0.00012%
WG-26	HALLIBURTON	Gelling Agent	Guar Gum	009000-30-0	100%	0.12493%
CLA-WEB	HALLIBURTON	Clay Stabilizer	Proprietary	N/A	60%	0.01246%
SUPERSET W	HALLIBURTON	Activator	Ethoxylated Nonylphenol	N/A	50%	0.01221%
			Methanol (Methyl Alcohol)	000067-56-1	50%	0.01221%
BC-200 UC	HALLIBURTON	Cross Linker	Proprietary Hydrotreated Light Petroleum Distillate	TRADE SECRET	30%	0.01053%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	5%	0.00176%
FR-66	HALLIBURTON	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8	30%	0.01017%
CL-31	HALLIBURTON	Cross Linker	Potassium Metaborate	013709-94-9	60%	0.00725%
			Potassium Hydroxide	001310-58-3	5%	0.0006%
MO-67	HALLIBURTON	pH Adjusting Agent	Sodium Hydroxide	001310-73-2	30%	0.00072%
19N	HALLIBURTON	Non- Emulsifier	Methanol (Methyl Alcohol)	000067-56-1	60%	0.00037%
			Quaternary Ammonium Compounds	N/A	60%	0.00037%
			Isopropanol (Isopropyl Alcohol, Propan-2-ol)	000067-63-0	10%	6E-05%
BA-20	HALLIBURTON	pH Adjusting Agent	Ammonium Acetate	000631-61-8	100%	0.0003%
SGA-II	HALLIBURTON	Gelling Agent	Acetic acid	000064-19-7	30%	9E-05%
			Petroleum Distillate Hydrotreated Light	064742-47-8	30%	0.00021%
HPH BREAKER	HALLIBURTON	Breaker	Sodium Chloride	007647-14-5	30%	0.00018%
MC MX 664-5	MULTI-CHEM	Surfactant	Methanol (Methyl Alcohol)	000067-56-1	70%	0.04513%
			Sulfonate	TRADE SECRET	30%	0.01934%
			Isopropanol (Isopropyl Alcohol, Propan-2-ol)	000067-63-0	5%	0.00322%
MC B 8642 WS	MULTI-CHEM	Anti- Bacterial Agent	Glutaraldehyde (Pentanediol)	000111-30-8	60%	0.01221%
			Quaternary Ammonium Compound	068424-85-1	10%	0.00204%
			Ethanol	000064-17-5	1%	0.0002%
			Ethylene Glycol	000107-21-1	60%	0.00494%
MC S-2510T (WS)	MULTI-CHEM	Scale Inhibitor	Sodium Hydroxide	001310-73-2	5%	0.00041%
Additional Ingredients Not Listed on MSDS					0%	0%
19N, BA-20, BC -200 UC, CL- 31, CLA-WEB, FE ACID, FR	HALLIBURTON	Acid, Breaker, Clay Stabilizer, Corrosion Inhibitor, Cross Linker, Friction Reducer, Gelling Agent,	1,2-Benzisothiazolin-3- one	2634-33-5	0%	0%
			2-Ethyl hexanol	104-76-7	0%	0%
			Alcohols, C12-16, ethoxylated	68551-12-2	0%	0%
			Amine Salts	Confidential Business Information	0%	0%
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			Ammonium chloride	12125-02-9	0%	0%
			Borate salts	Confidential Business Information	0%	0%
			Butyl alcohol	71-36-3	0%	0%
			Calcium chloride	10043-52-4	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Methanol	67-56-1	0%	0%
			Modified bentonite	Confidential Business Information	0%	0%
			Organic salt	Confidential Business Information	0%	0%
			Polyacrylamide Copolymer	Confidential Business Information	0%	0%
			Propylene carbonate	108-32-7	0%	0%
			Propylene glycol	57-55-6	0%	0%
			Quaternary Amine	Confidential Business Information	0%	0%
			Quaternary Amine	Confidential Business Information	0%	0%
			Quaternary Amine	Confidential Business Information	0%	0%
			Sodium carbonate	497-19-8	0%	0%
			Sodium Chloride	7647-14-5	0%	0%
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	0%	0%
Sorbitan, mono-9- octadecenoate, (Z)	1338-43-8	0%	0%			
Tall oil acid diethanolamide	68155-20-4	0%	0%			
Water	7732-18-5	0%	0%			
MC B 8642 WS, MC MX 664-5, MC S-2510T (WS)	MULTI-CHEM	Anti- Bacterial Agent, Scale Inhibitor, Surfactant	Methanol (Methyl Alcohol)	000067-56-1	0%	0%
Non-MSDS Components Not Provided by Supplier			NOT PROVIDED	0%	0%	
Water			007732-18-5	0%	0%	
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:	Bryan Arrant	
Date:		7/10/2012		Title:		Regulatory Specialist II
E-mail Address:		bryan.arrant@chk.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.