

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. 30-015-40126				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		2. Well Name: PLU PIERCE CANYON 16 24 30 STATE #001H				
		3. Well Number: 001H				
		4. Surface Hole Location: Unit: O Lot: O Section: 16 Township: 24S Range: 30E Feet from: 50 N/S Line: S Feet from: 1980 E/W Line: E				
		5. Bottom Hole Location: Unit: O Lot: O Section: 16 Township: 24S Range: 30E Feet from: 50 N/S Line: S Feet from: 1980 E/W Line: E				
		6. latitude: 32.2106511002592 longitude: -103.884023988226				
		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: 7/1/2012 Frac Performed by: Trican			12. Production Type: O			
13. Pool Code(s): 97798			14. Gross Fractured Interval: Confidential			
15. True Vertical Depth (TVD): 8,113 ft			16. Total Volume of Fluid Pumped: 48,183 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%	85.47104%
White Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	9.60345%
Super LC		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	97%	2.11436%
			Phenol/Formaldehyde Resin	009003-35-4	5%	0.10899%
			Hexamethylenetetramine (Hexamine)	000100-97-0	1%	0.0218%
100 Mesh Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	1.39048%
15 hcl	TRICAN	Acid	Water	007732-18-5	85%	0.80025%
			Hydrochloric Acid	007647-01-0	15%	0.14122%
FEAC-30	TRICAN	Iron Control Agent	Acetic Acid	000064-19-7	60%	0.00294%
			Water	007732-18-5	60%	0.00294%
AI-9	TRICAN	Corrosion Inhibitor	Citric Acid	000077-92-9	30%	0.00147%
			Methanol (Methyl Alcohol)	000067-56-1	60%	0.00183%
			Ethoxylated Alcohols^ C14-15	068951-67-7	30%	0.00091%
			Modified Thiourea Polymer	068527-49-1	30%	0.00091%
			Propargyl Alcohol (2-Propynol)	000107-19-7	10%	0.0003%
			Alkenes^ C>10 alpha-	064743-02-8	5%	0.00015%
			Calcined Diatomaceous Earth	091053-39-3	65%	0.02236%
ParaSorb	BAKER HUGHES	Scale Inhibitor	Mineral Oil (Paraffin Oil, White Mineral Oil)	008042-47-5	30%	0.01032%
			Paraffin Inhibitor	N/A	25%	0.0086%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	5%	0.00172%
MC MX 664-5	MULTI-CHEM	Surfactant	Methanol (Methyl Alcohol)	000067-56-1	70%	0.05373%
			Sulfonate	TRADE SECRET	30%	0.02303%
			Isopropanol (Isopropyl Alcohol, Propan-2-ol)	000067-63-0	5%	0.00384%
MC B 8642 WS	MULTI-CHEM	Anti-Bacterial Agent	Glutaraldehyde (Pentanediol)	000111-30-8	60%	0.0143%
			Quaternary Ammonium Compound	068424-85-1	10%	0.00238%
			Ethanol	000064-17-5	1%	0.00024%
MC S-2510T (WS)	MULTI-CHEM	Scale Inhibitor	Ethylene Glycol	000107-21-1	60%	0.00704%
WG-111D	TRICAN	Gelling Agent	Sodium Hydroxide	001310-73-2	5%	0.00059%
WXB-15	TRICAN	Cross Linker	Guar Gum	009000-30-0	100%	0.13286%
FR-12 (Anionic Acrylamide)	TRICAN	Friction Reducer	Solvent naptha, (petroleum) heavy aliphatic	064742-96-7	65%	0.03555%
			Petroleum Distillate Hydrotreated Light	064742-47-8	60%	0.02711%
			Copolymer of Acrylamide and Sodium Acrylate	025987-30-8	40%	0.01807%
EnCap HP	TRICAN	Breaker	Quaternary Ammonium Chloride (Ammonium Chloride)	012125-02-9	2%	0.0009%
			Ammonium Persulfate	007727-54-0	60%	0.00698%
			Proprietary Cured Acrylic Resin (EnCap HP)	TRADE SECRET	25%	0.00291%
PH-14L	TRICAN	pH Adjusting Agent	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	15%	0.00175%
			Sodium Hydroxide	001310-73-2	30%	0.00443%
						0%
Additional Ingredients Not Listed on MSDS					0%	0%
Super LC		Proppant	Non-MSDS Components Not Provided by Supplier	NOT PROVIDED	0%	0%
ParaSorb	BAKER HUGHES	Scale Inhibitor	Proprietary Polymer	TRADE SECRET	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%
PH-14L, WG-111D, WXB-15	TRICAN	Cross Linker, Gelling Agent, pH Adjusting Agent	2-Butoxyethanol (Ethylene Glycol Monobutyl Ether)	000111-76-2	0%	0%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	0%	0%
			Crystalline Silica (Silicon Dioxide)	007631-86-9	0%	0%
			Ethoxylated Alcohol C11-C14 iso	78330-21-9	0%	0%
			Modified Amidoamine	68990-47-6	0%	0%
			Propylene Carbonate	000108-32-7	0%	0%
			Silicon Dioxide	112926-00-8	0%	0%
			Tall Oil Fatty Acids	061790-12-3	0%	0%
			Tallow alkyl dimethyl-ammonium chloride / bentonite complex	071011-25-1	0%	0%
			Ullexite (Borate Salt)	001319-33-1	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		Title: Regulatory Specialist II		
Date: 8/14/2012						
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.