

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. 30-015-40341				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		2. Well Name: PLU REMUDA BASIN 32 23 30 STATE #001H				
		3. Well Number: 001H				
		4. Surface Hole Location: Unit:M Lot:M Section:32 Township:23S Range:30E Feet from:150 N/S Line:S Feet from:660 E/W Line:W				
		5. Bottom Hole Location: Unit:M Lot:M Section:32 Township:23S Range:30E Feet from:150 N/S Line:S Feet from:660 E/W Line:W				
		6. latitude: longitude: 32.2544162995884 - 103.910033895874				
		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: 8/22/2012 Frac Performed by: FTS International		12. Production Type: O				
13. Pool Code(s): 96526		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 8,204 ft		16. Total Volume of Fluid Pumped: 51,563 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%	86.1623%
10.1 - 15 HCL	FTS INTERNATIONAL	Acid	Water	007732-18-5	85%	0.82865%
			Hydrochloric Acid	007647-01-0	15%	0.14623%
FE-100L	FTS INTERNATIONAL	Iron Control Agent	Citric Acid	000077-92-9	55%	0.00174%
CI-150	FTS INTERNATIONAL	Corrosion Inhibitor	Isopropanol (Isopropyl Alcohol, Propan-2-ol)	000067-63-0	60%	0.00154%
			Proprietary Organic Amine Resin Salt	TRADE SECRET	30%	0.00077%
			Dimethyl Formamide	000068-12-2	10%	0.00026%
			Proprietary Aromatic Aldehyde	TRADE SECRET	10%	0.00026%
			Proprietary Quaternary Ammonium Compound	TRADE SECRET	10%	0.00026%
Northern White Sand		Proppant - Natural	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	9.04154%
Super LC		Proppant - Resin Coated	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	97%	1.9957%
			Phenol/Formaldehyde Resin	009003-35-4	5%	0.10287%
			Hexamethylenetetramine (Hexamine)	000100-97-0	1%	0.02057%
100 Mesh Sand		Proppant - Natural	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	1.33628%
ParaSorb	BAKER HUGHES	Scale Inhibitor	Calcined Diatomaceous Earth	091053-39-3	65%	0.02106%
			Mineral Oil (Paraffin Oil, White Mineral Oil)	008042-47-5	30%	0.00972%
			Paraffin Inhibitor	N/A	25%	0.0081%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	5%	0.00162%
HVG01 (TURQUOISE-1 BULK)	FTS INTERNATIONAL	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-8	55%	0.12768%
			Guar Gum	009000-30-0	50%	0.11608%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	2%	0.00464%
			Surfactant	068439-51-0	2%	0.00464%
BXL02 Borate XL	FTS INTERNATIONAL	Cross Linker	Sodium Metaborate Tetrahydrate	010555-76-7	25%	0.00772%
			Boric Acid	010043-35-3	15%	0.00463%
			Potassium Hydroxide	001310-58-3	12%	0.0037%
B10 (HIGH PH BUFFER)	FTS INTERNATIONAL	pH Adjusting Agent	Potassium Carbonate	000584-08-7	48%	0.00689%
			Potassium Hydroxide	001310-58-3	20%	0.00287%
FRW-200	FTS INTERNATIONAL	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8	26%	0.00492%
APB01 (AMMONIUM PERSUFATE BREAKER)	FTS INTERNATIONAL	Breaker	Ammonium Persulfate	007727-54-0	100%	0.00138%
MC MX 5-2350	MULTI-CHEM	Surfactant	Methanol (Methyl Alcohol)	000067-56-1	100%	0.06277%
			Proprietary Ethoxylated Alcohol Blend	TRADE SECRET	13%	0.00816%
			Proprietary Sulfonate	TRADE SECRET	10%	0.00628%
MC B 8642 WS	MULTI-CHEM	Anti-Bacterial Agent	Glutaraldehyde (Pentanediol)	000111-30-8	60%	0.01242%
			Quaternary Ammonium Compound	068424-85-1	10%	0.00207%
			Ethanol	000064-17-5	1%	0.00021%
MC S-2510T (WS)	MULTI-CHEM	Scale Inhibitor	Ethylene Glycol	000107-21-1	60%	0.005%
			Sodium Hydroxide	001310-73-2	5%	0.00042%
Additional Ingredients Not Listed on MSDS					0%	0%
Super LC		Proppant - Resin Coated	Non-MSDS Components Not Provided by Supplier	NOT PROVIDED	0%	0%
ParaSorb	BAKER HUGHES	Scale Inhibitor	Proprietary Polymer	TRADE SECRET	0%	0%
APB01 (AMMONIUM PERSUFATE BREAKER), B10 (HIGH PH B	FTS INTERNATIONAL	Breaker, Corrosion Inhibitor, Cross Linker, Friction Reducer, Iron Control Agent, pH Adjusting Agent	Proprietary Breaker (APB01) Additive	TRADE SECRET	0%	0%
			Proprietary Corrosion Inhibitor Additive (CI-150)	TRADE SECRET	0%	0%
			Proprietary Friction Reducer Additive (FRW-200 and FRW-200W)	TRADE SECRET	0%	0%
			Water	007732-18-5	0%	0%
MC B 8642 WS, MC MX 5-2350, 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 Title: Regulatory Specialist II						
Date: 9/12/2012						
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.