

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: 30-015-39693				
		2. Well Name: PLU BIG SINKS 15 25 30 USA #001H				
		3. Well Number: 001H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:C Lot:C Section:22 Township:25S Range:30E Feet from:10 N/S Line:N Feet from:1980 E/W Line:W				
		5. Bottom Hole Location: Unit:C Lot:C Section:22 Township:25S Range:30E Feet from:10 N/S Line:N Feet from:1980 E/W Line:W				
		6. latitude: longitude: 32.123082018737 - 103.871179840398				
		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: 4/25/2012 Frac Performed by: Multi-Chem		12. Production Type: O				
13. Pool Code(s): 96654		14. Gross Fractured Interval: 8,363 ft to 13,543 ft				
15. True Vertical Depth (TVD): 8,475 ft		16. Total Volume of Fluid Pumped: 49,576 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%	0%
White Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	10.87335%
SB Excel		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	1.59553%
100 Mesh Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	0.12455%
15 hcl	TRICAN	Acid	Water	007732-18-5	85%	0.89189%
			Hydrochloric Acid	007647-01-0	15%	0.15739%
FEAC-30	TRICAN	Iron Control Agent	Acetic Acid	000064-19-7	60%	0.0007%
			Water	007732-18-5	60%	0.0007%
			Citric Acid	000077-92-9	30%	0.00035%
AI-9	TRICAN	Corrosion Inhibitor	Methanol (Methyl Alcohol)	000067-56-1	60%	0.00158%
			Ethoxylated Alcohols^ A C14-15	068951-67-7	30%	0.00079%
			Modified Thiourea Polymer	068527-49-1	30%	0.00079%
			Propargyl Alcohol (2-Propynol)	000107-19-7	10%	0.00026%
			Alkenes^ C>10 alpha-	064743-02-8	5%	0.00013%
ParaSorb	BAKER HUGHES	Scale Inhibitor	Calcined Diatomaceous Earth	091053-39-3	65%	0.02179%
			Mineral Oil (Paraffin Oil, White Mineral Oil)	008042-47-5	30%	0.01006%
			Paraffin Inhibitor	N/A	25%	0.00838%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	5%	0.00168%
MC S-2510T (WS)	MULTI-CHEM	Scale Inhibitor	Ethylene Glycol	000107-21-1	60%	0.00595%
			Sodium Hydroxide	001310-73-2	5%	0.0005%
MC MX 664-5	MULTI-CHEM	Surfactant	Methanol (Methyl Alcohol)	000067-56-1	70%	0.05371%
			Sulfonate	TRADE SECRET	30%	0.02302%
			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%	0.01437%
			Quaternary Ammonium Compound	068424-85-1	10%	0.0024%
			Ethanol	000064-17-5	1%	0.00024%
WG-111D	TRICAN	Gelling Agent	Guar Gum	009000-30-0	100%	0.17834%
FR-12 (Anionic Acrylamide)	TRICAN	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8	60%	0.17136%
			Copolymer of Acrylamide and Sodium Acrylate	025987-30-8	40%	0.11424%
			Quaternary Ammonium Chloride (Ammonium Chloride)	012125-02-9	2%	0.00571%
WBO-1 (Oxidizer Breaker)	TRICAN	Breaker	Ammonium Persulfate	007727-54-0	100%	0.00769%
WXB-12	TRICAN	Cross Linker	Ethylene Glycol	000107-21-1	60%	0.00398%
			Sodium Tetraborate	012179-04-3	30%	0.00199%
			Sodium Hydroxide	001310-73-2	7%	0.00046%
EnCap HP	TRICAN	Breaker	Ammonium Persulfate	007727-54-0	60%	0.00254%
			Proprietary Cured Acrylic Resin (EnCap HP)	TRADE SECRET	25%	0.00106%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	15%	0.00064%
PH-11	TRICAN	pH Adjusting Agent	Potassium Hydroxide	001310-58-3	23%	0.00188%
Additional Ingredients Not Listed on MSDS			Chemical Name		0%	0%
100 Mesh Sand, SB Excel, White Sand		Proppant	No Non-MSDS Listed Components	NOT AVAILABLE	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%
			Neutralized Polymer	TRADE SECRET	0%	0%
			Phosphoric Acid	007664-38-2	0%	0%
			Water	007732-18-5	0%	0%
15 hcl, AI-9, EnCap HP, FEAC-30, FR-12 (Anionic Ac	TRICAN	Acid, Breaker, Corrosion Inhibitor, Cross Linker, Friction Reducer, Gelling Agent, Iron Control Agent	Crystalline Silica (Silicon Dioxide)	007631-86-9	0%	0%
			No Non-MSDS Listed Components	NOT AVAILABLE	0%	0%
			Potassium Carbonate	000584-08-7	0%	0%
			Silicon Dioxide	112926-00-8	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: 5/30/2012						
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.