

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: 30-015-40520				
		2. Well Name: PLU PIERCE CANYON 17 24 30 USA				
		3. Well Number: 001H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:N Lot:N Section:17 Township:24S Range:30E Feet from:237 N/S Line:S Feet from:1980 E/W Line:W				
		5. Bottom Hole Location: Unit:N Lot:N Section:17 Township:24S Range:30E Feet from:237 N/S Line:S Feet from:1980 E/W Line:W				
		6. Latitude: 32.2110829892675 Longitude: -103.905816037646				
		7. County: Eddy				
8. Operator Name and Address: BOPCO, L.P. 6 Desta Drive, Ste 3700 P. O. Box 2760 Midland 79702		9. OGRID: 260737	10. Phone Number: 432-683-2277			
11. Last Fracture Date: 11/2/2012 Frac Performed by: TRICAN		12. Production Type: O				
13. Pool Code(s): 47545		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 7,794 ft		16. Total Volume of Fluid Pumped: 41,636 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%	84.56445%
15 hcl	TRICAN	Acid	Water	007732-18-5	85%	0.99884%
			Hydrochloric Acid	007647-01-0	15%	0.17627%
FEAC-20	TRICAN	Iron Control Agent	Acetic acid	000064-19-7	50%	0.00183%
			Citric Acid	000077-92-9	30%	0.0011%
LAI-21	TRICAN	Corrosion Inhibitor	Methanol (Methyl Alcohol)	000067-56-1	40%	0.00151%
			Propargyl Alcohol (2- Propynol)	000107-19-7	10%	0.00038%
Northern White Sand		Proppant - Natural	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	10.27057%
Super LC		Proppant - Resin Coated	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	97%	2.42761%
			Phenol/Formaldehyde Resin	009003-35-4	5%	0.12513%
			Hexamethylenetetramine (Hexamine)	000100-97-0	1%	0.02503%
100 Mesh Sand		Proppant - Natural	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	0.92118%
ParaSorb	BAKER HUGHES	Scale Inhibitor	Calcined Diatomaceous Earth	091053-39-3	65%	0.0256%
			Mineral Oil (Paraffin Oil, White Mineral Oil)	008042-47-5	30%	0.01181%
			Paraffin Inhibitor	N/A	25%	0.00985%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	5%	0.00197%
MC MX 664-5	MULTI- CHEM	Surfactant	Methanol (Methyl Alcohol)	000067-56-1	70%	0.05182%
			Proprietary Sulfonate	TRADE SECRET	30%	0.02221%
			Isopropanol (Isopropyl Alcohol, Propan-2-ol)	000067-63-0	5%	0.0037%
MC B 8642 WS	MULTI- CHEM	Anti- Bacterial Agent	Glutaraldehyde (Pentanediol)	000111-30-8	60%	0.01372%
			Quaternary Ammonium Compound	068424-85-1	10%	0.00229%
			Ethanol	000064-17-5	1%	0.00023%
MC S-2510T (WS)	MULTI- CHEM	Scale Inhibitor	Ethylene Glycol	000107-21-1	60%	0.00572%
			Sodium Hydroxide	001310-73-2	5%	0.00048%
WG-111L	TRICAN	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-8	60%	0.17134%
			Polysaccharide blend	N/A	60%	0.17134%
FR-12 (Anionic Acrylamide)	TRICAN	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8	60%	0.03177%
			Copolymer of Acrylamide and Sodium Acrylate	025987-30-8	40%	0.02118%
			Quaternary Ammonium Chloride (Ammonium Chloride)	012125-02-9	2%	0.00106%
WXB-10	TRICAN	Cross Linker	Petroleum Distillate Hydrotreated Light	064742-47-8	60%	0.01451%
			Ulexite (Borate Salt)	001319-33-1	60%	0.01451%
PH-11	TRICAN	pH Adjusting Agent	Potassium Hydroxide	001310-58-3	23%	0.0035%
WXB-14	TRICAN	Cross Linker	Potassium Hydroxide	001310-58-3	10%	0.0026%
EnCap HP	TRICAN	Breaker	Ammonium Persulfate	007727-54-0	60%	0.00236%
			Proprietary Cured Acrylic Resin (EnCap HP)	TRADE SECRET	25%	0.00098%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	15%	0.00059%
WBO-1 (Oxidizer Breaker)	TRICAN	Breaker	Ammonium Persulfate	007727-54-0	100%	0.00232%
S-15 (Surfactant)	TRICAN	Surfactant	Methanol (Methyl Alcohol)	000067-56-1	20%	0.00052%
			Proprietary Alcohol Alkoxylate	TRADE SECRET	20%	0.00052%
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%
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%
FEAC-20, LAI- 21, PH-11, S-15 (Surfactant), WG -111L	TRICAN	Corrosion Inhibitor, Cross Linker, Gelling Agent, Iron Control Agent, pH Adjusting Agent, Surfactant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	0%	0%
			Guar Gum	009000-30-0	0%	0%
			Modified Bentonite (Organophillic Clay)	068953-58-2	0%	0%
			Modified Thiourea Polymer	068527-49-1	0%	0%
			Potassium borate	012045-78-2	0%	0%
			Potassium Carbonate	000584-08-7	0%	0%
			Proprietary Alcohol	TRADE SECRET	0%	0%
			Ethoxylate Surfactants	TRADE SECRET	0%	0%
			Proprietary n-Olefin	TRADE SECRET	0%	0%
			Propylene Carbonate	000108-32-7	0%	0%
			Sorbitan Trioleate	026266-58-0	0%	0%
			Tall Oil Fatty Acids	061790-12-3	0%	0%
			Tallow alkyl dimethyl- ammonium chloride / bentonite complex	071011-25-1	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: Emma Z Galindo Title: Engineering Assistant						
Date: 1/7/2013						
E-mail Address: ezgalindo@basspet.com						
NMOCDD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCDD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.						