

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. 30-015-39945					
		2. Well Name: CROW FLATS 14 16 28 USA #002H					
		3. Well Number: 002H					
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:E Lot:E Section:14 Township:16S Range:28E Feet from:1980 N/S Line:N Feet from:10 E/W Line:W					
		5. Bottom Hole Location: Unit:E Lot:E Section:14 Township:16S Range:28E Feet from:1980 N/S Line:N Feet from:10 E/W Line:W					
		6. latitude: longitude: 32.9254763336835 - 104.155272542158					
		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: 6/7/2012 Frac Performed by: TRICAN				12. Production Type: O			
13. Pool Code(s): 97102				14. Gross Fractured Interval: Confidential			
15. True Vertical Depth (TVD): 6,604 ft				16. Total Volume of Fluid Pumped: 35,989 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%	84.19601%	
Premium White		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	7.6294%	
Super LC		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	97%	3.05447%	
			Phenol/Formaldehyde Resin	009003-35-4	5%	0.15745%	
			Hexamethylenetetramine (Hexamine)	000100-97-0	1%	0.03149%	
100 Mesh Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	0.73539%	
15 hcl	TRICAN	Acid	Water	007732-18-5	85%	3.14918%	
FEAC-30	TRICAN	Iron Control Agent	Hydrochloric Acid	007647-01-0	15%	0.55574%	
			Acetic Acid	000064-19-7	60%	0.01174%	
			Water	007732-18-5	60%	0.01174%	
AI-9	TRICAN	Corrosion Inhibitor	Citric Acid	000077-92-9	30%	0.00587%	
			Methanol (Methyl Alcohol)	000067-56-1	60%	0.00727%	
			Ethoxylated Alcohols^ C14-15	068951-67-7	30%	0.00363%	
ParaSorb	BAKER HUGHES	Scale Inhibitor	Modified Thiourea Polymer	068527-49-1	30%	0.00363%	
			Propargyl Alcohol (2-Propynol)	000107-19-7	10%	0.00121%	
			Alkenes^ C>10 alpha-	064743-02-8	5%	0.00061%	
			Calcined Diatomaceous Earth	091053-39-3	65%	0.02602%	
MC MX 5-2350	MULTI-CHEM	Surfactant	Mineral Oil (Paraffin Oil, White Mineral Oil)	008042-47-5	30%	0.01201%	
			Paraffin Inhibitor	N/A	25%	0.01001%	
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	5%	0.002%	
MC B-8642 (WS)	MULTI-CHEM	Anti-Bacterial Agent	Methanol (Methyl Alcohol)	000067-56-1	100%	0.06662%	
			Proprietary Ethoxylated Alcohol Blend	TRADE SECRET	13%	0.00866%	
			Proprietary Sulfonate	TRADE SECRET	10%	0.00666%	
MC S-2510T (WS)	MULTI-CHEM	Scale Inhibitor	Glutaraldehyde (Pentanediol)	000111-30-8	60%	0.01301%	
			Quaternary Ammonium Compound	068424-85-1	10%	0.00217%	
			Ethanol	000064-17-5	1%	0.00022%	
WG-111D	TRICAN	Gelling Agent	Sodium Hydroxide	000107-21-1	60%	0.00539%	
WXB-12	TRICAN	Cross Linker	Sodium Hydroxide	001310-73-2	5%	0.00045%	
			Guar Gum	009000-30-0	100%	0.28072%	
			Ethylene Glycol	000107-21-1	60%	0.04416%	
WBO-1 (Oxidizer Breaker)	TRICAN	Breaker	Sodium Tetraborate	012179-04-3	30%	0.02208%	
			Sodium Hydroxide	001310-73-2	7%	0.00515%	
			Ammonium Persulfate	007727-54-0	100%	0.01504%	
PH-11	TRICAN	pH Adjusting Agent	Potassium Hydroxide	001310-58-3	23%	0.0075%	
EnCap HP	TRICAN	Breaker	Ammonium Persulfate	007727-54-0	60%	0.004%	
			Proprietary Cured Acrylic Resin (EnCap HP)	TRADE SECRET	25%	0.00167%	
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	15%	0.001%	
DF-1	TRICAN	Defoaming Agent	No Hazardous Components	NONE	0%	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 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%	
DF-1, PH-11, WG-111D, WXB-12	TRICAN	Cross Linker, Defoaming Agent, Gelling Agent, pH Adjusting Agent	Crystalline Silica (Silicon Dioxide)	007631-86-9	0%	0%	
			Methylcellulose	009004-67-5	0%	0%	
			Polydimethyl Siloxane	063148-62-9	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: 7/5/2012							
E-mail Address: bryan.arrant@chk.com							
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