

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. 30-015-38466				
		2. Well Name: CROW FLATS 14 FEDERAL #004H				
		3. Well Number: 004H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:L Lot:L Section:14 Township:16S Range:28E Feet from:1980 N/S Line:S Feet from:200 E/W Line:W				
		5. Bottom Hole Location: Unit:L Lot:L Section:14 Township:16S Range:28E Feet from:1980 N/S Line:S Feet from:200 E/W Line:W				
		6. latitude: longitude: 32.9216999642082 - 104.154651705629				
		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: 6/1/2012 Frac Performed by: TRICAN			12. Production Type: O			
13. Pool Code(s): 97102			14. Gross Fractured Interval: Confidential			
15. True Vertical Depth (TVD): 6,654 ft			16. Total Volume of Fluid Pumped: 38,991 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%	86.61447%
White Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	7.6223%
Super LC		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	97%	2.61864%
			Phenol/Formaldehyde Resin	009003-35-4	5%	0.13498%
			Hexamethylenetetramine (Hexamine)	000100-97-0	1%	0.027%
100 Mesh Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	0.70943%
15 hcl	TRICAN	Acid	Water	007732-18-5	85%	1.51914%
			Hydrochloric Acid	007647-01-0	15%	0.26808%
FEAC-30	TRICAN	Iron Control Agent	Acetic Acid	000064-19-7	60%	0.0055%
			Water	007732-18-5	60%	0.0055%
			Citric Acid	000077-92-9	30%	0.00275%
AI-9	TRICAN	Corrosion Inhibitor	Methanol (Methyl Alcohol)	000067-56-1	60%	0.00345%
			Ethoxylated Alcohols^ C14-15	068951-67-7	30%	0.00172%
			Modified Thiourea Polymer	068527-49-1	30%	0.00172%
			Propargyl Alcohol (2-Propynol)	000107-19-7	10%	0.00057%
			Alkenes^ C>10 alpha-	064743-02-8	5%	0.00029%
MC MX 664-5	MULTI-CHEM	Surfactant	Methanol (Methyl Alcohol)	000067-56-1	70%	0.04808%
			Sulfonate	TRADE SECRET	30%	0.0206%
			Isopropanol (Isopropyl Alcohol, Propan-2-ol)	000067-63-0	5%	0.00343%
MC B 8642 WS	MULTI-CHEM	Anti-Bacterial Agent	Glutaraldehyde (Pentanediol)	000111-30-8	60%	0.01354%
			Quaternary Ammonium Compound	068424-85-1	10%	0.00226%
			Ethanol	000064-17-5	1%	0.00023%
MC S-2510T (WS)	MULTI-CHEM	Scale Inhibitor	Ethylene Glycol	000107-21-1	60%	0.00601%
			Sodium Hydroxide	001310-73-2	5%	0.0005%
WG-111D	TRICAN	Gelling Agent	Guar Gum	009000-30-0	100%	0.41399%
WBO-1 (Oxidizer Breaker)	TRICAN	Breaker	Ammonium Persulfate	007727-54-0	100%	0.00872%
WXB-12	TRICAN	Cross Linker	Ethylene Glycol	000107-21-1	60%	0.00504%
			Sodium Tetraborate	012179-04-3	30%	0.00252%
			Sodium Hydroxide	001310-73-2	7%	0.00059%
EnCap HP	TRICAN	Breaker	Ammonium Persulfate	007727-54-0	60%	0.00309%
			Proprietary Cured Acrylic Resin (EnCap HP)	TRADE SECRET	25%	0.00129%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	15%	0.00077%
PH-11	TRICAN	pH Adjusting Agent	Potassium Hydroxide	001310-58-3	23%	0.00213%
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%
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%
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				

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.