

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: 30-015-39509				
		2. Well Name: CROW FLATS 14 16 28 USA #005H				
		3. Well Number: 005H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:D Lot:D Section:14 Township:16S Range:28E Feet from:660 N/S Line:N Feet from:200 E/W Line:W				
		5. Bottom Hole Location: Unit:D Lot:D Section:14 Township:16S Range:28E Feet from:660 N/S Line:N Feet from:200 E/W Line:W				
		6. latitude: longitude: 32.9291038363322 - 104.154649099802				
		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: 2/24/2012 Frac Performed by: FTS INTERNATIONAL		12. Production Type: O				
13. Pool Code(s): 97102		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 6,756 ft		16. Total Volume of Fluid Pumped: 32,780 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%	85.37411%
Ottawa Sand		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	8.17338%
Super LC		Proppant	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	97%	3.2638%
			Phenol/Formaldehyde Resin	009003-35-4	5%	0.16824%
			Hexamethylenetetramine (Hexamine)	000100-97-0	1%	0.03365%
10.1 - 15 HCL	FTS INTERNATIONAL	Acid	Water	007732-18-5	85%	1.70778%
			Hydrochloric Acid	007647-01-0	15%	0.30137%
FE 200	FTS INTERNATIONAL	Iron Control Agent	Tetrasodium Ethylenediaminetetraacetate	000064-02-8	41%	0.00203%
			Trisodium Nitrilotriacetate	005064-31-3	2%	0.0001%
			Sodium Hydroxide	001310-73-2	1.9%	9E-05%
CI-150	FTS INTERNATIONAL	Corrosion Inhibitor	Isopropanol (Isopropyl Alcohol, Propan-2-ol)	000067-63-0	60%	0.00325%
			Proprietary Organic Amine Resin Salt	TRADE SECRET	30%	0.00163%
			Proprietary Aromatic Aldehyde	TRADE SECRET	10%	0.00054%
			Proprietary Quaternary Ammonium Compound	TRADE SECRET	10%	0.00054%
			Dimethyl Formamide	000068-12-2	10%	0.00054%
HVG01 (TURQUOISE-1 BULK)	FTS INTERNATIONAL	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-8	55%	0.27421%
			Guar Gum	009000-30-0	50%	0.24928%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	2%	0.00997%
			Surfactant	068439-51-0	2%	0.00997%
LTB-01	FTS INTERNATIONAL	Breaker	Ammonium Persulfate	007727-54-0	100%	0.14198%
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	25%	0.0355%
			Proprietary Cured Acrylic Resin	TRADE SECRET	25%	0.0355%
BXL02 Borate XL	FTS INTERNATIONAL	Cross Linker	Sodium Metaborate Tetrahydrate	010555-76-7	25%	0.0328%
			Boric Acid	010043-35-3	15%	0.01968%
			Potassium Hydroxide	001310-58-3	12%	0.01575%
KCLS02 (LIQUID KCL SUBSTITUTE)	FTS INTERNATIONAL	Clay Stabilizer	Quaternary Ammonium Chloride	070750-07-1	60%	0.01899%
B10 (HIGH PH BUFFER)	FTS INTERNATIONAL	pH Adjusting Agent	Potassium Carbonate	000584-08-7	48%	0.01386%
			Potassium Hydroxide	001310-58-3	20%	0.00578%
NE 100	FTS INTERNATIONAL	Non-Emulsifier	2-Butoxyethanol (Ethylene Glycol Monobutyl Ether)	000111-76-2	10%	0.00759%
			Isopropanol (Isopropyl Alcohol, Propan-2-ol)	000067-63-0	10%	0.00759%
			Dodecylbenzenesulfonic Acid	027176-87-0	5%	0.0038%
APB01 (AMMONIUM PERSUFATE BREAKER)	FTS INTERNATIONAL	Breaker	Ammonium Persulfate	007727-54-0	100%	0.00187%
ICI-3240 (1 GAL)	FTS INTERNATIONAL	Anti-Bacterial Agent	Dazomet	000533-74-4	24%	0.00828%
			Sodium Hydroxide	001310-73-2	4%	0.00138%
CS-250 SI	FTS INTERNATIONAL	Scale Inhibitor	Ethylene Glycol	000107-21-1	10%	0.00153%
MC B-8642 (WS)	MULTI-CHEM	Anti-Bacterial Agent	Glutaraldehyde (Pentanediol)	000111-30-8	60%	0.01494%
			Quaternary Ammonium Compound	068424-85-1	10%	0.00249%
			Ethanol	000064-17-5	1%	0.00025%
MC MX 664-5	MULTI-CHEM	Surfactant	Methanol (Methyl Alcohol)	000067-56-1	70%	0.05494%
			Sulfonate	TRADE SECRET	30%	0.02354%
			Isopropanol (Isopropyl Alcohol, Propan-2-ol)	000067-63-0	5%	0.00392%
MC S-2510T (WS)	MULTI-CHEM	Scale Inhibitor	Ethylene Glycol	000107-21-1	60%	0.00604%
			Sodium Hydroxide	001310-73-2	5%	0.0005%
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: 7/3/2012						
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.