

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 November 6, 2013				
		1. WELL API NO: 30-015-41909				
		2. Well Name: CROW FEDERAL #019H				
		3. Well Number: 019H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit: I Lot: I Section: 10 Township: 17S Range: 31E Feet from: 2280 N/S Line: S Feet from: 370 E/W Line: E				
		5. Bottom Hole Location: Unit: I Lot: I Section: 10 Township: 17S Range: 31E Feet from: 2280 N/S Line: S Feet from: 370 E/W Line: E				
		6. Latitude: 32.8481184872992 Longitude: -103.850200671931				
		7. County: Eddy				
8. Operator Name and Address: APACHE CORP 303 Veterans Airpark Lane Suite 3000 Midland 79705		9. OGRID: 873	10. Phone Number: 432-818-1062			
11. Last Fracture Date: 5/14/2014 Frac Performed by: Pumpco Services		12. Production Type: O				
13. Pool Code(s): 26770		14. Gross Fractured Interval: 5,772 ft to 9,630 ft				
15. True Vertical Depth (TVD): 5,710 ft		16. Total Volume of Fluid Pumped: 2,982,001 gals				
17. Total Volume of Re-Use Water Pumped: N/A		18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed				
19. 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)
Water	Crescent	Carrier/Base Fluid	Water	7732-18-5	100%	87.28161%
Sand (Proppant)	TSS	Proppant	Silica Substrate	14808-60-7	100%	8.86888%
Hydrochloric Acid (15%)	Reagent	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.50177%
AP-Scale-1	Blentech	Scale Inhibitor	Ethylene Glycol	107-21-1	35%	0.01711%
AP-Surf-1A	Blentech	Surfactant	Polyacrylate blend	Proprietary	7%	0.00342%
			Methanol	67-56-1	25%	0.02103%
			Sulfonate	Proprietary	4%	0.00337%
AP-FR-1	Ashland	Friction Reducer	Alkyl alkoxylate	Proprietary	11%	0.00925%
			Hydrocarbon-aliphatic	25450-40-01	5%	0.00409%
			Fatty alcohol alkoxylate	Proprietary	1.5%	0.00123%
AC-307	Reef	Iron Control	Polyacrylate based copolymer	Proprietary	30%	0.02455%
			Glacial Acetic Acid	64-19-7	1%	0.0001%
			Isopropanol	67-63-0	1.5%	0.00014%
AI-265	Reef	Acid Inhibitor	Isopropanol	67-63-0	15%	0.00045%
			Methanol	67-56-1	15%	0.00045%
			Propargyl Alcohol	107-19-7	20%	0.0006%
			Xylene	1330-20-7	25%	0.00074%
			Isooctyl Alcohol	68526-88-5	25%	0.00074%
			Bottoms			
ANG-2077	Reef	Non-Emulsifier	Formaldehyde	50-00-0	0.1%	0%
AP-Bio-1	Dow Chemical Company	Biocide	Peptide Derivative	Proprietary	1.5%	6E-05%
			Glutaraldehyde	111-30-8	42.5%	0.01979%
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	7.5%	0.00349%
Claymax	Chemplex	Clay Stabilizer	Ethanol	64-17-5	1%	0.00047%
Plexset 730	Chemplex	Proppant	Choline Chloride	67-48-1	65%	0.11754%
		Consolidator	Alcohol Ethoxylates	Proprietary	60%	0.02726%
			Methyl Alcohol	67-56-1	50%	0.02272%
20. 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: Sandra J Belt		Title: Sr. Regulatory Tech		
Date: 12/17/2014						
E-mail Address: sandra.belt@apachecorp.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.