Submit within 45 days of well c	State of New Mexico					Revised November 6, 2013 1. WELL API NO. 20.015, 40010		
		Energy, Minerals and Natural Resource Oil Conservation Division 1220 S. St Francis Dr.				30-015-40918		
						2. Well Name: RAVEN FEDERAL #021H		
	ta Fe, NM 8750	3. Well Number:						
HYDRAULIC FRACTURING FLUID DISCLOSURE						4. Surface Hole Location: Unit:P Lot:P Section:7 Township:17S Range:31E Feet from:330 N/S Line:S		
⊠ Original						Feet from:180 5. Bottom Hole	Location:	V Line:E
Amendment						Unit:P Lot: Feet from:330		wnship:17S Range:31E S Line:S
						Feet from:180		V Line:E ongitude:
							.8426745896671	-103.901189694151
						Edd	dy	
Operator Name and Address: APACHE CORP 303 Veterans Airp: Suite 3000 Midland 79705			9. OGRID:	873	10. Phone Number:	432-818-1062		
11. Last Fracture Date: 11/20/2014 Frac Performed by: Baker Hughes					12. Production			
13. Pool Code(s): 96831					14. Gross Frag	soctured interval: 5.408 ft to 8.981 ft		
15. True Vertical Depth (TVD):					16. Total Volu	tal Volume of Fluid Pumped:		
5,000 ft 17. Total Volume of Re-Use Water Pumped:					18. Percent of	2,307,144 gals nt of Re-Use Water in Fluid Pumped:		
N/A 19. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:					Not Disclosed			
Trade Name	Supplier	Purpose	Ingredients	(CAS #) Chemical Abstract Service #		Maximum Ing Concentratio mass)	gredient n in Additive (% by	Maximum Ingredient Concentration in HF Fluid (% by mass)
Water Superset-W, 55 gal drum	Operator Baker Hughe	Carrier es Activator	Water Listed with Chemicals in	7732-18-5 N/A			100% 0%	88.452% 0.1645%
Alpha 125	Baker Hughe	10.175459	Ingredients Listed with Chemicals in	N/A		3	0%	0.0317%
ClayCare	Baker Hughe	es Clay Control	Ingredients Listed with Chemicals in	N/A			0%	0.0253%
FRW-18	Baker Hughe	es Friction Reducer	Ingredients Listed with Chemicals in Ingredients	N/A			0%	0.0763%
Sand, White, 40/70	Baker Hughe	es Proppant	Listed with Chemicals in Ingredients	N/A			0%	4.2065%
Sand, White, 100 mesh	Baker Hughe	es Proppant	Listed with Chemicals in Ingredients	N/A			0%	4.3107%
Super LC, 40/70	Baker Hughe	es Proppant	Listed with Chemicals in Ingredients	N/A			0%	2.5644%
S-200	Baker Hughe	es Surfactant	Listed with Chemicals in	N/A			0%	0.1107%
Chemical Ingredients	Baker Hughe	es Treatment System	Ingredients Alcohols, C10-16,	69227-22-1	69227-22-1		5%	0.005532%
			ethoxylated propoxylated Alcohols, C12-16,	68551-12-2		2%		0.001524%
			ethoxylated Alcohols, C6-12,	68937-66-6	66-6		5%	0.005532%
			ethoxylated propoxylated Alcohols, ethoxylated	68551-12-2			4%	0.004426%
			Amines, unsatd. alkyl,	68155-39-5 12125-02-9			2%	0.002213%
			ethoxylated Ammonium Chloride				3%	0.002286%
			Choline Chloride Crystalline Silica	67-48-1 14808-60-7		75% 100%		0.018976% 8.511693%
			(Quartz)	Contract of Contra			0.55000000	
			Ethanol Glutaraldehyde	64-17-5 111-30-8 100-97-0 64742-47-8		+	10% 30%	0.011065% 0.009498%
			Hexamethylenetetramine				0.01% 30%	0.000256% 0.022864%
			Hydrotreated Light Distillate					
			Methanol Oleamide DEA	67-56-1 93-83-4			50% 2%	0.08226% 0.001524%
			Phenolic Resin Poly (Oxyethylene)	9003-35-4 9016-45-9			5% 50%	0.128135% 0.082181%
			Nonylphenol Ether Poly (acrylamide-co- acrylic acid) partial	62649-23-4			30%	0.022864%
			sodium salt Polyoxythylene Sorbitan Monooleate	9005-65-6			0.5%	0.000381%
			Silicon Dioxide (Silica Sand)	14808-60-7 7647-14-5			97% 5%	2.48581%
			Sodium Chloride Sorbitan Monooleate	1338-43-8			0.5%	0.003811% 0.000381%
Ingredients shown above			Water	7732-18-5			75% 0%	0.144807% 0%
myreuenis snown above		1	1	1		1	U%	U%

E-mail Address: fatima.vasquez@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.

Title: Regulatory Analyst

Ingredients shown above are subject to 29 CFR 1910

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: Fatima Vasquez

3/24/2015

Date: