

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. 30-015-44040					
		2. Well Name: PALMILLO 14-15 STATE #301H					
		3. Well Number: 301H					
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:P Lot:P Section:15 Township:19S Range:28E Feet from:250 N/S Line:S Feet from:315 E/W Line:E					
		5. Bottom Hole Location: Unit:P Lot:P Section:15 Township:19S Range:28E Feet from:250 N/S Line:S Feet from:315 E/W Line:E					
		6. latitude: longitude: 32.6541224 -104.15630556					
		7. County: Eddy					
8. Operator Name and Address: APACHE CORP 303 Veterans Airpark Lane Suite 3000 Midland 79705				9. OGRID: 873		10. Phone Number: 432-818-1801	
11. Last Fracture Date: 8/15/2017 Frac Performed by: Pumpco				12. Production Type: O			
13. Pool Code(s): 96413				14. Gross Fractured Interval: 8,791 ft to 13,484 ft			
15. True Vertical Depth (TVD): 8,563 ft				16. Total Volume of Fluid Pumped: 7,782,222 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	Operator	Carrier/Base Fluid	Water	7732-18-5	100%		90.05109%
Sand	TSS	Proppant	Silica Substrate	14808-60-7	100%		8.89045%
15% HCL	Reagent	Acidizing	Hydrochloric Acid	7647-01-0	15%		0.09728%
Chemplex 4-N-1	Chemplex	Combination/Iron Control	2-Ethylhexanol	104-76-7	10%		0.00045%
			Acetic Acid	64-19-7	85%		0.00384%
			Alcohol Ethoxylate	Proprietary	2%		9E-05%
			Surfactants				
			Cocamide	68603-42-9	2%		9E-05%
			Diethanolamine Salt				
			Diethanolamine	111-42-2	2%		9E-05%
			Methyl Alcohol	67-56-1	10%		0.00045%
			n-olefins	Proprietary	1%		5E-05%
			Propargyl Alcohol	107-19-7	1%		5E-05%
BT Scale 2S	Blentech	Scale Inhibitor	thiourea-formaldehyde copolymer	68527-49-1	2%		9E-05%
			PolyAcrylate	Proprietary	88%		0.00214%
			Surfactant Blend	Proprietary	10%		0.00403%
			Distillates, Petroleum, Hydrotreated Light	64742-47-8	30%		0.01208%
FR5560	Rockwater Energy Solutions	Friction Reducer	Proprietary Polymer	Proprietary	30%		0.01208%
			Calcium chloride	10043-52-4	2%		0.00012%
			Choline chloride	67-48-1	35%		0.00207%
Clayplex 650	Chemplex	Clay Stabilizer	Isopropyl alcohol	67-63-0	45%		0.01461%
					0%		0%
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: Emily Follis			Title: Sr Prod Dept Asst		
Date: 9/18/2017							
E-mail Address: emily.follis@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.