

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. 30-015-43508				
		2. Well Name: CEDAR LAKE FEDERAL CA #549H				
		3. Well Number: 549H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:E Lot:E Section:5 Township:17S Range:31E Feet from:2510 N/S Line:N Feet from:715 E/W Line:W				
		5. Bottom Hole Location: Unit:E Lot:E Section:5 Township:17S Range:31E Feet from:2510 N/S Line:N Feet from:715 E/W Line:W				
		6. latitude: longitude: 32.863895 -103.898185				
		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: 5/31/2017 Frac Performed by: PUMPCO		12. Production Type: O				
13. Pool Code(s): 96831		14. Gross Fractured Interval: 5,744 ft to 9,491 ft				
15. True Vertical Depth (TVD): 5,383 ft		16. Total Volume of Fluid Pumped: 3,754,548 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%	84.79722%
Sand	TSS	Proppant	Silica Substrate	14808-60-7	100%	11.93126%
15% HCL	Reagent	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.31084%
Chemplex 4-N-1	Chemplex	Combination/Iron Control	2-Ethylhexanol	104-76-7	10%	0.00154%
			Acetic Acid	64-19-7	85%	0.01313%
			Alcohol Ethoxylate Surfactants	Proprietary	2%	0.00031%
			Cocamide Diethanolamine Salt	68603-42-9	2%	0.00031%
			Diethanolamine	111-42-2	2%	0.00031%
			Methyl Alcohol	67-56-1	10%	0.00154%
			n-olefins	Proprietary	1%	0.00015%
			Propargyl Alcohol	107-19-7	1%	0.00015%
			thiourea-formaldehyde copolymer	68527-49-1	2%	0.00031%
			BT Scale 2S	Blentech	Scale Inhibitor	PolyAcrylate
FR5560	Rockwater Energy Solutions	Friction Reducer	Surfactant Blend	Proprietary	10%	0.00712%
			Distillates, Petroleum, Hydrotreated Light	64742-47-8	30%	0.02137%
			Proprietary Polymer	Proprietary	30%	0.02137%
MayoQuest 1900	Compass Chemical	Scale Inhibitor	Bis(hexamethylene)triamine(pentamethylenephosphonic acid)	34690-00-1	50%	0.01607%
			Hydrochloric acid	7647-01-0	6%	0.00193%
Clayplex 650	Chemplex	Clay Stabilizer	Calcium chloride	10043-52-4	2%	0.00027%
			Choline chloride	67-48-1	35%	0.00471%
BT Surf 2	Blentech	Surfactant	Isopropyl alcohol	67-63-0	45%	0.01254%
					0%	0%
					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: 7/31/2017 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.