

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: 30-015-43363				
		2. Well Name: CEDAR LAKE FEDERAL CA #724H				
		3. Well Number: 724H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:L Lot:3 Section:7 Township:17S Range:31E Feet from:2308 N/S Line:S Feet from:330 E/W Line:E				
		5. Bottom Hole Location: Unit:L Lot:3 Section:7 Township:17S Range:31E Feet from:2308 N/S Line:S Feet from:330 E/W Line:E				
		6. latitude: 32.847784 longitude: -103.914638				
		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: 5/7/2016 Frac Performed by: C & J		12. Production Type: O				
13. Pool Code(s): 96831		14. Gross Fractured Interval: 5,613 ft to 9,244 ft				
15. True Vertical Depth (TVD): 5,322 ft		16. Total Volume of Fluid Pumped: 2,338,350 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)
FR-15	C&J	Friction Reducrer	Distillates (petroleum), Hydrotreated light	64742-47-8	60%	0.01047%
			Polyacrylamide Copolymer	Proprietary	40%	0.00698%
			Surfactant Blend	Proprietary	6%	0.00105%
CI-2	C&J	Corrosion Inhibitor	Methanol	67-56-1	80%	0.00662%
ICA-1	C&J	Iron Control Agent	Fatty Acids	Proprietary	10%	0.00296%
			Trisodium Nitriiotriacetate	5064-31-3	50%	0.00931%
AP-Scale-2	SNF Inc.	Parafin and Scale Additive	Calcium Chloride	10043-52-4	25%	0.00079%
CI-3	C&J	Corrosion Inhibitor	Ethylene Glycol	107-21-1	40%	0.00801%
			Dimethylformamide	68-12-2	20%	0.004%
			2-butoxyethanol	111-76-2	15%	0.003%
			Cinnamaldehyde	104-55-2	15%	0.003%
			Tar Bases, Quinoline Dervis., Benzyl Chloride-quaternized	72480-70-7	15%	0.003%
			1-decanol	112-30-1	5%	0.001%
			4-nonylphenol, Branched, Ethoxylated	127087-87-0	5%	0.001%
			1-octanol	111-87-5	2.5%	0.0005%
			Isopropanol	67-63-0	2.5%	0.0005%
			Triethyl Phosphate	78-40-0	2.5%	0.0005%
			CS-1	C&J	Clay Stabilizer	Choline Chloride
Aqucar 742	DOW Chemical Company	Biocidal Product	Glutaraldehyde	111-30-8	42%	0.00388%
			Water	7732-18-5	48.6%	0.00449%
			Quaternary ammonium compounds, benzyl C12-16-alkyldimethyl, chlorides	68424-85-1	7.5%	0.00069%
			Ethanol	64-27-5	1%	9E-05%
Ap-Surf-2A	Blentech Corporation	Surfactant	Isopropyl Alcohol	67-63-0	45%	0.01428%
HC-15	C&J	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.6117%
100 Mesh	C&J	Proppant	Silica - Crystalline, Quartz	14080-60-7	99.9%	5.94535%
			Aluminum Oxide	1344-28-1	1.1%	0.06546%
			Iron Oxide	1309-37-1	0.1%	0.00595%
			Titanium Dioxide	13463-67-7	0.1%	0.00595%
40/70 White	C&J	Proppant	Silica - Crystalline, Quartz	14080-60-7	99.9%	2.9564%
			Aluminum Oxide	1344-28-1	1.1%	0.03255%
			Iron Oxide	1309-37-1	0.1%	0.00296%
			Titanium Dioxide	13463-67-7	0.1%	0.00296%
40/70 Innoprop PLT	US Silica	Proppant	Silica - Crystalline, Quartz	14080-60-7	98%	2.87581%
			Polyurethane Resin (cured)	9016-87-9	5%	0.14665%
Water	Apache	Carrier/Base Fluid	Water	7732-18-5	100%	83.9565%
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: 7/28/2016 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.