

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				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		1. WELL API NO: 30-025-41812				
		2. Well Name: MCDONALD STATE AC 2 #038				
		3. Well Number: 038				
		4. Surface Hole Location: Unit:H Lot:H Section:13 Township:22S Range:36E Feet from:2525 N/S Line:N Feet from:1070 E/W Line:E				
		5. Bottom Hole Location: Unit:H Lot:H Section:13 Township:22S Range:36E Feet from:2525 N/S Line:N Feet from:1070 E/W Line:E				
		6. latitude: 32.3921495364489 longitude: -103.213835178441				
		7. County: Lea				
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: 8/7/2014 Frac Performed by: Cudd		12. Production Type: O				
13. Pool Code(s): 19190, 60240, 62700		14. Gross Fractured Interval: 6,258 ft to 7,033 ft				
15. True Vertical Depth (TVD): 7,600 ft		16. Total Volume of Fluid Pumped: 83,272 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		Carrier / Base Fluid		7732-18-5	100%	79.73589%
Super DC/LC TLC/THS Opti RCS	Sandtrol	Proppant	Silicon Dioxide	14808-60-7	97%	15.3137%
			P/F Novolak Resin	9003-35-4	5%	0.78937%
			Hexamethylenetetramine	1009-7-0	1%	0.15787%
			Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	20%	0.00271%
B-15	Water Science Tech	Biocide	Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8		
BF-200	ASK	Buffer	Water	7732-18-5	80%	0.01085%
			Potassium Hydroxide	1310-58-3	25%	0.01838%
CS-14	Chemplex, L.C.	Clay Control	Water	7732-18-5	80%	0.0588%
			Non-hazardous salts (Choline)	Proprietary	66%	0.06143%
15% Hydrochloric Acid	Reagent	Scale Dissolver	Water	7732-18-5	45%	0.04188%
			37% Hydrochloric Acid	7647-01-0	15%	0.46317%
I-122	Chemplex,L.C.	Acid Corrosion Inhibitor	Water	7732-18-5	85%	2.62461%
			Methanol	67-56-1	70%	0.00099%
			Propargyl alcohol	107-19-7	8%	0.0002%
			Alcohol Ethoxylate	Trade Secret	30%	0.00074%
SG-15G	PIP Technology	Polymer	Surfactants			
			n-olefins	Trade Secret	10%	0.00025%
			thiourea-formaldehyde copolymer	68527-49-1	30%	0.00074%
			Guar Gum	9000-30-0	50%	0.39037%
CX-10	Benchmark	Crosslinker	Petroleum Distillate (Mineral Oil)	64742-47-8	55%	0.42941%
			Bentonite Clay	14808-60-7	2%	0.01561%
			Surfactant	68439-51-0	2%	0.01561%
			Sodium Borate Decahydrate	1303-96-4	29.9%	0.02803%
GB-150	Chemplex, L.C.	Breaker	Water	7732-18-5	69.1%	0.06478%
			Non-hazardous ingredients	NA	100%	0.06109%
NE-212	Chemplex, L.C.	Non-emulsifier	Isopropanol	67-63-0	5%	0.00012%
			Methanol	67-56-1	50%	0.00125%
			Alkyl Quanternary Ammonium Chlorides	Mixture	25%	0.00062%
			Diethanolamine	111422	2%	2E-05%
			1,3-Propanediol, 2-amino-2-(hm)-polymer	Trade Secret	8%	0.0002%
			2-Butoxy-1-ethanol	111-76-2	7%	0.00017%
			Cocamide	68603-42-9	2%	5E-05%
			Diethanolamine Salt			
NE-227	CESI	Non-emulsifier	Isopropanol	67-63-0	15%	0.01327%
			Methanol	67-56-1	15%	0.01327%
FE-360	Chemplex, L.C.	Iron Control Additive	Ethoxylated Nonylphenol	9016-45-9	20%	0.01769%
			Cupric Chloride Dihydrate	10125-13-0	7%	0.00066%
SI-625	Keltech	Scale Inhibitor	Thioglycol	60-24-2	80%	0.00758%
Superset W	Santrol	Resin Activator	Methanol	67-56-1	19.9%	0.01085%
			Methanol	67-56-1	50%	0.05795%
			Poly(oxyethylene) nonyphenol ether	9016-45-9	54%	0.06258%
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: Reesa R. Holland Title: Sr Staff Reg Tech						
Date: 9/22/2014						
E-mail Address: reesa.fisher@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.