

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: 30-015-10805				
		2. Well Name: HACKBERRY HILLS FEDERAL #004				
		3. Well Number: 004				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☐ Original ☒ Amends disclosure submitted on 4/5/2017		4. Surface Hole Location: Unit:F Lot:F Section:22 Township:22S Range:26E Feet from:2310 N/S Line:N Feet from:1980 E/W Line:W				
		5. Bottom Hole Location: Unit:F Lot:F Section:22 Township:22S Range:26E Feet from:2310 N/S Line:N Feet from:1980 E/W Line:W				
		6. latitude: longitude: 32.3788223 -104.2830124				
		7. County: Eddy				
8. Operator Name and Address: READ & STEVENS INC P. O. Box 1518 Roswell 88202		9. OGRID: 18917	10. Phone Number: 575-622-3770			
11. Last Fracture Date: 4/4/2017 Frac Performed by: Elite Well Services		12. Production Type: G				
13. Pool Code(s): 77960		14. Gross Fractured Interval: 4,760 ft to 4,810 ft				
15. True Vertical Depth (TVD): 4,810 ft		16. Total Volume of Fluid Pumped: 53,688 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	Customer	Carrier/Base Fluid	Water	7732-18-5	100%	81.92522%
Sand (Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100%	0.75338%
RCS (Proppant)	Momentive	Proppant	Silica Substrate	14808-60-7	100%	11.49811%
Hydrochloric Acid (15%)	CNR	Acidizing	Hydrochloric Acid	7647-01-0	38.8%	1.92725%
4-N-1 Plus	Chemplex	Iron Control,Corr Inhib,Surfactant	Acetic Acid	64-19-7	80%	0%
			Methanol	67-56-1	10%	0%
AMA 398	Chemplex	Biocide	Tetrahydro-3,Dimethyl-2H	533-74-4	98%	0.01795%
Plexset 730	Chemplex	Activator	Secondary Alcohol Ethoxylate	84133-50-6	50%	0%
Plexsurf 240 E	Chemplex	Surfactant	Methyl Alcohol	67-56-1	10%	0.00666%
			2-Butoxyethanol	111-76-2	50%	0.0333%
Plexslick 953	Chemplex	Friction Reducer	Alcohol Ethoxylate Surfactants	Proprietary	8%	0%
			Hydrotreated Petroleum Distillate	64742-47-8	30%	0%
			Polyacrylamide-co-Acrytic Acid	9003-06-9	31%	0%
Plexgel 907 LE	Chemplex	Polymer	Guar Gum	9000-30-0	50%	0.19177%
			Mineral Oil	64742-47-8	55%	0.21094%
			Bentonite Clay	14808-60-7	2%	0.00767%
			Surfactant	68439-51-0	2%	0.00767%
Plexbor 101	Chemplex	Crosslinker	Ethylene Glycol	107-21-1	9.99%	0.01209%
			Potssium Metaborate	13709-94-9	30%	0.0363%
			Potassium Hydroxide	1310-58-3	5%	0.00605%
Plexgel Breaker 10L	Chemplex	Gel Breaker	Mannanase Enzymes	Proprietary	2%	0.00068%
			Sodium Chloride	7647-14-5	15%	0.00509%
Sodium Persulfate	Chemplex	Gel Breaker	Sodium Persulfate	7775-27-1	98%	0.05361%
Plexaid TDS	Chemplex	PH Control	Diaminodiethylamine	111-40-0	90%	0%
Greenhib 679	Chemplex	Scale Inhibitor	Glycerine	56-81-5	35%	0.01167%
			Proprietary	Proprietary	35%	0.01167%
			Water	7732-18-5	30%	0.01%
Clayplex 650	Chemplex	Clay Stabilizer	Water	7732-18-5	60%	0.05475%
			Ethanaminium, 2-hydroxy-N,N,N-trimethyl-chloride	67-48-1	35%	0.03194%
Plexcide 15G	Chemplex, LC	Biocide	Glutaraldehyde	111-30-8	14%	0%
			Didecyl dimethyl ammonium chloride	7173-51-5	3%	0%
			Alkyl dimethyl benzyl ammonium chloride	68424-85-1	3%	0%
			Ethanol	64-17-5	3%	0%
Plexbor 108	Chemplex	Crosslinkrer	Hydrated Aluminmagnesium Silicate	12174-11-7	5%	0%
			Glutaraldehyde	111-30-8	1%	0%
			Crystalline Silica	14808-60-7	1%	0%
Buffer 11	Chemplex	PH Control	Potassium Hydroxide	1310-58-3	23%	0.0123%
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: Kelly Barajas Title: Production Analyst						
Date: 4/5/2017						
E-mail Address: KBarajas@read-stevens.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.