

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: 30-025-41696				
		2. Well Name: IRONHOUSE 24 STATE COM #004H				
		3. Well Number: 004H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:M Lot:M Section:24 Township:18S Range:34E Feet from:200 N/S Line:S E/W Line:W Feet from:660				
		5. Bottom Hole Location: Unit:M Lot:M Section:24 Township:18S Range:34E Feet from:200 N/S Line:S E/W Line:W Feet from:660				
		6. latitude: 32.7266085167999 longitude: -103.520348915098				
		7. County: Lea				
8. Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP 333 W. Sheridan Avenue Oklahoma City 73102		9. OGRID: 6137	10. Phone Number: 405-228-8588			
11. Last Fracture Date: 9/27/2014 Frac Performed by: Schlumberger		12. Production Type: O				
13. Pool Code(s): 97930		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 14,235 ft		16. Total Volume of Fluid Pumped: 6,123,626 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)
15% HCl, YF125, Slickwater	Schlumberger	Acid Corrosion Inhibitor A286, Activator, Bactericide (Myacide GA25), Friction Reducer, Surfactant B	Water (Including Mix Water Supplied by Client)	NA	0%	85.717111%
			Crystalline silica	14808-60-7	96.44169%	13.77466%
			Hydrochloric acid	7647-01-0	1.83419%	0.26198%
			Phenolic resin	9003-35-4	0.43594%	0.06226%
			Guar gum	9000-30-0	0.39125%	0.05588%
			Propan-2-ol	67-63-0	0.15751%	0.0225%
			Ethylene Glycol	107-21-1	0.11553%	0.0165%
			Alcohol, C7-9-iso, C8, ethoxylated	78330-19-5	0.10207%	0.01458%
			Distillates (petroleum), hydrotreated light	64742-47-8	0.06603%	0.00943%
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.05031%	0.00719%
			Diammonium peroxodisulphate	7727-54-0	0.04996%	0.00714%
			Glutaraldehyde	111-30-8	0.0496%	0.00708%
			Polyamine polyethers	68815-65-6	0.03626%	0.00518%
			Ammonium chloride	12125-02-9	0.03144%	0.00449%
			Sodium hydroxide	1310-73-2	0.02752%	0.00393%
			2,2'-(Ethylenedioxy) diethanol (triethylene glycol)	112-27-6	0.02442%	0.00349%
			Gum, xanthan	11138-66-2	0.0165%	0.00236%
			Benzenemethanaminium, N-(3-aminopropyl)-N,N-dimethyl-, N-soya acyl derivs., chlorides	90194-13-1	0.01378%	0.00197%
			Sodium erythorbate	6381-77-7	0.01227%	0.00175%
			Poly(oxy-1,2-ethanediyl), alpha-,2,4,6-tris (1-phenylethyl) phenyl-,omega-,hydroxy-	70559-25-0	0.01209%	0.00173%
			Sodium tetraborate	1330-43-4	0.01056%	0.00151%
			Terpenes and Terpenoids, sweet orange-oil	68647-72-3	0.00725%	0.00104%
			Sorbitan monooleate	1338-43-8	0.00629%	0.0009%
			Ethoxylated oleic acid	9004-96-0	0.00629%	0.0009%
			Vinylidene chloride/methylacrylate copolymer	25038-72-6	0.00411%	0.00059%
			Alcohols, C12-15 linear, ethoxylated	68131-39-5	0.00314%	0.00045%
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00308%	0.00044%
			Fatty acid, tall-oil reaction products with acetophenone	68188-40-9	0.00256%	0.00037%
			Propane-1,2-diol	57-55-6	0.00218%	0.00031%
			Sorbitol Tetraoleate	61723-83-9	0.00189%	0.00027%
			Sodium sulfocyanate	540-72-7	0.00164%	0.00023%
			2-Propenoic acid, ammonium salt	10604-69-0	0.00154%	0.00022%
			Isodecanol w/6-7 Moles Ethylene Oxide	26183-52-8	0.00143%	0.0002%
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00126%	0.00018%
			Non-crystalline silica (impurity)	7631-86-9	0.00098%	0.00014%
			Castor oil, ethoxylated	61791-12-6	0.00097%	0.00014%
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00094%	0.00013%
			C14 alpha olefin ethoxylate	84133-50-6	0.00094%	0.00013%
			Cinnamaldehyde	104-55-2	0.00094%	0.00013%
			Ethanol	64-17-5	0.00036%	5E-05%
			1,2,3-Propanetriol	56-81-5	0.00036%	5E-05%
			2-propenamid	79-06-1	0.00028%	4E-05%
			Amines, tallow alkyl, ethoxylated	61791-26-2	0.00027%	4E-05%
			Magnesium silicate hydrate (talc)	14807-96-6	0.00013%	2E-05%
			Dodecyl poly (oxyethylene) ether	9002-92-0	0.00012%	2E-05%
			Glycols, polyethylene, monotetradecyl ether	27306-79-2	8E-05%	1E-05%
			poly(tetrafluoroethylene)	9002-84-0	5E-05%	1E-05%
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: Sara Cook Title: Regulatory Associate						
Date: 12/22/2014						
E-mail Address: sara.cook@dvn.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.