

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 <input checked="" type="checkbox"/> Original <input type="checkbox"/> Amendment		1. WELL API NO. 30-045-35693
		2. Well Name: WILL #004
		3. Well Number: 004
		4. Surface Hole Location: Unit:N Lot:N Section:15 Township:23N Range:11W Feet from:1207 N/S Line:S Feet from:1641 E/W Line:W
		5. Bottom Hole Location: Unit:N Lot:N Section:15 Township:23N Range:11W Feet from:1207 N/S Line:S Feet from:1641 E/W Line:W
		6. latitude: 36.22294 longitude: -107.99567
		7. County: San Juan

8. Operator Name and Address: DUGAN PRODUCTION CORP P O Box 420 Farmington 87401	9. OGRID: 6515	10. Phone Number: 505-325-1821
11. Last Fracture Date: 9/16/2017 Frac Performed by: Halliburton	12. Production Type: G	
13. Pool Code(s): 71629	14. Gross Fractured Interval: 370 ft to 434 ft	
15. True Vertical Depth (TVD): 710 ft	16. Total Volume of Fluid Pumped: 24,977 gals	
17. Total Volume of Re-Use Water Pumped: 0 gals	18. Percent of Re-Use Water in Fluid Pumped: %	

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)
2% KCL Water	Operator	Base Fluid	Water	7732-18-5	98%	58.01651%
BA-40L Buffering Agent	Halliburton	Buffer	Listed Below	Listed Below	0%	0%
BC-140	Halliburton	Crosslinker	Listed Below	Listed Below	0%	0%
BE-6 Microbicide	Halliburton	Biocide	Listed Below	Listed Below	0%	0%
Cla-Web (TM)	Halliburton	Additive	Listed Below	Listed Below	0%	0%
GBW-30 Breaker	Halliburton	Breaker	Listed Below	Listed Below	0%	0%
LOSURF-300D	Halliburton	Non-ionic Surfactant	Listed Below	Listed Below	0%	0%
Nitrogen Liquefied	Halliburton	Fluid	Listed Below	Listed Below	0%	0%
OPTIFLO-HTE	Halliburton	Breaker	Listed Below	Listed Below	0%	0%
Sand-Premium White-20/40, Bulk	Halliburton	Proppant	Listed Below	Listed Below	0%	0%
WG-35 Gelling Agent	Halliburton	Gelling Agent	Listed Below	Listed Below	0%	0%
Corrosorb 3600	Baker Hughes	Scale Inhibitor	Listed Below	Listed Below	0%	0%
Scalesorb 3	Baker Hughes	Scale Inhibitor	Listed Below	Listed Below	0%	0%
Ingredients	Listed Above	Listed Above	1,2,4 trimethylbenzene	95-63-6	1%	0.0003%
			2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00127%
			Acid phosphate ester	Trade Secret	10%	0.01125%
			Amine salts	Proprietary	0.1%	7E-05%
			Amino alkyl phosphonic acid	Trade Secret	30%	0.03374%
			C.I. Pigment Red 5	6410-41-9	1%	7E-05%
			Crystalline Silica	14808-60-7	1%	0.00112%
			Crystalline silica, quartz	14808-60-7	100%	34.57399%
			Crystalline silica: Quartz (SiO2)	14808-60-7	1%	0.00112%
			Cured acrylic resin	Proprietary	30%	0.00218%
			Diatomaceous earth, calcined	91053-39-3	100%	0.11247%
			Enzyme	Proprietary	5%	0.00035%
			Ethanol	64-17-5	60%	0.01776%
			Ethylene glycol	107-21-1	30%	0.04386%
			Guar gum	9000-30-0	100%	0.15548%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00888%
			Hemicellulase enzyme	9012-54-8	30%	0.00312%
			Hydroxyalkylammonium chloride	Proprietary	60%	0.02163%
			Lactose	63-42-3	100%	0.0104%
			Monoethanolamine borate	26038-87-9	60%	0.08772%
			Naphthalene	91-20-3	5%	0.00148%
			Nitrogen	7727-37-9	100%	5.60961%
			Oxylated phenolic resin	Proprietary	30%	0.01184%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00148%
			Potassium carbonate	584-08-7	60%	0.0042%
			Potassium chloride	7447-40-7	2%	1.18401%
			Quaternary amine	Proprietary	5%	0.0022%
			Quaternary ammonium chloride	Trade Secret	30%	0.03374%
			Sodium chloride	7647-14-5	5%	0.0018%
			Walnut hulls	CAS Not Assigned	100%	0.00703%
			Water	7732-18-5	60%	0.11356%

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: <u>Signed Electronically</u>	Printed Name: <u>Tyra M Feil</u>	ENGINEERING Title: <u>ASSISTANT</u>
Date: <u>11/17/2017</u>		
E-mail Address: <u>tyrafeil@duganproduction.com</u>		

NMOCDD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCDD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.