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. 30-045-35285

2. Well Name: ST MORITZ COM #091

3. Well Number: 091

4. Surface Hole Location:
Unit:D Lot:D Section:26 Township:24N Range:10W
Feet from:660 N/S Line:N
Feet from:1145 E/W Line:W

5. Bottom Hole Location:
Unit:D Lot:D Section:26 Township:24N Range:10W
Feet from:660 N/S Line:N
Feet from:1145 E/W Line:W

6. latitude: 0 longitude: 0

7. County: San Juan

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original
☐ Amendment

8. Operator Name and Address:
DUGAN PRODUCTION CORP
PO BOX 420
FARMINGTON 87499

9. OGRID: 6515

10. Phone Number:

11. Last Fracture Date: 11/18/2013 Frac Performed by: Baker Hughes

12. Production Type: G

13. Pool Code(s): 71629

14. Gross Fractured Interval: 1,283 ft to 1,297 ft

15. True Vertical Depth (TVD): 1,297 ft

16. Total Volume of Fluid Pumped: 12,482 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)
Water	Dugan Production Corp.	Carrier	Water	7732-18-5	100%	53.081513%
Alpha 1427	Baker Hughes	Biocide	Didecyl Dimethyl Ammonium Chloride	7173-51-5	10%	0.00446%
			Ethanol	64-17-5	5%	0.00223%
			Glutaraldehyde	111-30-8	30%	0.01339%
			Quaternary Ammonium Compound	68424-85-1	5%	0.00223%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.0051%
Enzyme G-I	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in the non-MSDS section of the report.	NA	100%	0.05528%
GBW-33D	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	Trade Secret	100%	0.00255%
BC-6	Baker Hughes	Breaker Catalyst	Triethanolamine	102-71-6	60%	0.03298%
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.06622%
ClayCare, ClayTreat-2C, 330 gal tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.11135%
			Water	7732-18-5	30%	0.04454%
CorrSorb 3600, 25 lb pail	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	9046-01-9	10%	0.0102%
			Crystalline Silica: Quartz	14808-60-7	1%	0.00102%
			Ethylene Glycol	107-21-1	1%	0.00102%
			Quaternary Ammonium Compound	61789-71-7	30%	0.0306%
FAW-22	Baker Hughes	Foamer	Alkyl Sulfate (1 of 3)	Trade Secret	1%	0.00255%
			Alkyl Sulfate (2 of 3)	Trade Secret	1%	0.00255%
			Alkyl Sulfate (3 of 3)	Trade Secret	1%	0.00255%
			Ammonium Alkyl Ether Sulfate	Trade Secret	10%	0.02553%
			Isopropanol	67-63-0	30%	0.07658%
			Sodium Sulfonate	68439-57-6	30%	0.07658%
GW-3LDF	Baker Hughes	Gelling Agent	1-butoxy-2-propanol	5131-66-8	5%	0.01098%
			Crystalline Silica: Quartz	14808-60-7	5%	0.01098%
			Guar Gum	9000-30-0	60%	0.13179%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.01098%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.0659%
			Petroleum Distillates	64742-47-8	30%	0.0659%
Nitrogen	Baker Hughes	Nitrogen	Liquid Nitrogen	7727-37-9	100%	11.75301%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	33.62211%
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.0306%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00102%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.10201%
			Phosphonic Acid	13598-36-2	1%	0.00102%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.05088%
			Oxyalkylated Alkylphenol (1)	Trade Secret	10%	0.01696%
			Oxyalkylated Alkylphenol (2)	Trade Secret	10%	0.01696%
			Oxyalkylated Fatty Acid	Trade Secret	3%	0.00509%
		Ingredients shown below are Non-MSDS	2-butoxy-1-propanol	15821-83-7	0%	0.00021977%
			85% Phosphoric Acid, FG	10361-65-6	0%	3E-07%
			Boric Acid	10043-35-3	0%	3E-07%
			Calcium Carbonate	471-34-1	0%	0.0001785%
			Calcium Chloride	10043-52-4	0%	5E-07%
			Corn Meal	NA	0%	0.00211577%
			Cupric Sulfate 5 H_2O, AC8	7758-99-8	0%	3E-07%
			D-Biotin, USP	119616-38-5	0%	3E-07%
			Ethoxylated Alcohol	Trade Secret	0%	0.00255528%
			Ethylene Glycol	107-21-1	0%	0.00255528%
			Fatty Amide Derivative	70851-08-0	0%	0.00255528%
			Ferric Chloride, Hexahydrate	7705-08-0	0%	3E-07%
			Formaldehyde	50-00-0	0%	0.00255528%
			Hemicellulase Enzyme Concentrate	9025-56-3	0%	0.00165855%
			Linseed Meal	8001-26-1	0%	0.00255552%
			Magnesium Sulfate	7487-88-9	0%	3E-07%
			Mannan Endo-1,4-Β-Mannosidase	37288-54-3	0%	2.8E-06%
			Polyethylene Glycol	25322-68-3	0%	3E-07%
			Potassium Hydroxide	1310-58-3	0%	0.0014337%
			Potassium Sulfate	7778-80-5	0%	3E-07%
			Sodium Chloride	7647-14-5	0%	0.00292933%
			Sodium Molybdate	7631-95-0	0%	3E-07%
			Sodium Sulfate	7757-82-6	0%	0.00255528%
			Soy Isoflavone	486-66-8	0%	3E-07%
			Thiamine-HCl	67-03-8	0%	3E-07%
			Water	7732-18-5	0%	0.39452165%
			Yeast Extract	8013-01-2	0%	3E-07%
			Zinc Sulfate Hepthahydrate	7446-19-7	0%	3E-07%

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: TYRA M FEIL Title: ENGINEERING ASSISTANT

Date: 12/10/2013

E-mail Address: tyrafel@duganproduction.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.