

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 February 15, 2012

1. WELL API NO.
30-045-34758

2. Well Name:
MANCINI #004

3. Well Number:
004

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit: | Lot: | Section: 15 Township: 22N Range: 08W
Feet from: 1500 N/S Line: S
Feet from: 1000 E/W Line: E

5. Bottom Hole Location:
Unit: | Lot: | Section: 15 Township: 22N Range: 08W
Feet from: 1500 N/S Line: S
Feet from: 1000 E/W Line: E

6. Latitude: 36.13653 Longitude: -107.66391

7. County: San Juan

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

9. OGRID: 6515

10. Phone Number:

11. Last Fracture Date: 9/4/2013 Frac Performed by: Baker Hughes

12. Production Type:
G

13. Pool Code(s):
71629

14. Gross Fractured Interval:
735 ft to 750 ft

15. True Vertical Depth (TVD):
750 ft

16. Total Volume of Fluid Pumped:
20,089 gals

17. 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	Operator	Carrier	Water	7732-18-5	100%	65.91342%
Alpha 1427	Baker Hughes	Biocide	Didecyl Dimethyl Ammonium Chloride	7173-51-5	10%	0.00344%
			Ethanol	64-17-5	5%	0.00172%
			Glutaraldehyde	111-30-8	30%	0.01033%
			Quaternary Ammonium Compound	68424-85-1	5%	0.00172%
GBW-5	Baker Hughes	Breaker	Ammonium Phosphate	7727-54-0	100%	0.00787%
Enzyme G-I	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in the non-MSDS section of the report	NA	100%	0.04922%
GBW-33D	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	Trade Secret	100%	0.00197%
BC-6	Baker Hughes	Breaker Catalyst	Triethanolamine	102-71-6	60%	0.02332%
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.09545%
CorrSorb 3600, 25 lb pail	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	9046-01-9	10%	0.00787%
			Crystalline Silica: Quartz	14808-60-7	1%	0.00079%
			Ethylene Glycol	107-21-1	1%	0.00079%
			Quaternary Ammonium Compound	61789-71-7	30%	0.02361%
XLW-32, 260 gal tote	Baker Hughes	Crosslinker	Boric Acid	10043-35-3	30%	0.02763%
			Methanol	67-56-1	60%	0.05526%
			Methyl Borate	121-43-7	30%	0.02763%
FAW-22	Baker Hughes	Foamer	Alkyl Sulfate (1 of 3)	Trade Secret	1%	0.00386%
			Alkyl Sulfate (2 of 3)	Trade Secret	1%	0.00386%
			Alkyl Sulfate (3 of 3)	Trade Secret	1%	0.00386%
			Ammonium Alkyl Ether Sulfate	Trade Secret	10%	0.0386%
			Ethoxylated Alcohol	Trade Secret	1%	0.00386%
			Isopropanol	67-63-0	30%	0.11581%
			Sodium Sulfonate	68439-57-6	30%	0.11581%
GW-3LDF	Baker Hughes	Gelling Agent	1-butoxy-2-propanol	5131-66-8	5%	0.01375%
			Crystalline Silica: Quartz	14808-60-7	5%	0.01375%
			Guar Gum	9000-30-0	60%	0.16495%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.01375%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.08247%
			Petroleum Distillates	64742-47-8	30%	0.08247%
Nitrogen	Baker Hughes	Nitrogen	Liquid Nitrogen	7727-37-9	100%	7.59772%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	24.80734%
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.02361%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.00079%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.0787%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Phosphonic Acid	13598-36-2	1%	0.00079%
			Methanol	67-56-1	30%	0.05381%
			Oxyalkylated Alkylphenol (1)	Trade Secret	10%	0.01794%
			Oxyalkylated Alkylphenol (2)	Trade Secret	10%	0.01794%
			Oxyalkylated Amine	Trade Secret	3%	0.00538%
			Polyoxyalkylene	Trade Secret	10%	0.01794%
			2-butoxy-1-propanol	15821-83-7	0%	0.0002749%
			85% Phosphoric Acid, FG	10361-65-6	0%	2E-07%
			Boric Acid	10043-35-3	0%	2E-07%
			Calcium Carbonate	471-34-1	0%	0.0001377%
			Calcium Chloride	10043-52-4	0%	4E-07%
			Corn Meal	N/A	0%	0.0016331%
			Cupric Sulfate 5 H2O, ACS	7758-99-8	0%	2E-07%
			D-Biotin, USP	119616-38-5	0%	2E-07%
			Ethylene Glycol	107-21-1	0%	0.0038603%
			Fatty Amide	70851-08-0	0%	0.0038603%
			Derivative			
			Ferric Chloride, Hexahydrate	7705-08-0	0%	2E-07%
			Formaldehyde	50-00-0	0%	0.0038603%
			Hemicellulase Enzyme Concentrate	9025-56-3	0%	0.0014765%
			Linseed Meal	8001-26-1	0%	0.0001968%
			Magnesium Sulfate	7487-88-9	0%	2E-06%
			Mannan Endo-1,4-B-Mannosidase	37288-54-3	0%	2.2E-06%
			Polyethylene Glycol	25322-68-3	0%	2E-07%
			Potassium Hydroxide	1310-58-3	0%	0.0015908%
			Potassium Sulfate	7778-80-5	0%	2E-07%
			Sodium Chloride	7647-14-5	0%	0.0039194%
			Sodium Molybdate	7631-95-0	0%	2E-07%
			Sodium Sulfite	7757-82-6	0%	0.0038603%
			Soy Isoflavone	486-66-8	0%	2E-07%
			Thiamine-HCl	67-03-8	0%	2E-07%
			Water	7732-18-5	0%	0.4445256%
			Yeast Extract	8013-01-2	0%	2E-07%
			Zinc Sulfate Heptahydrate	7446-19-7	0%	2E-07%

18. 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: TYRAM FEIL

ENGINEERING

Date: 9/19/2013 Title: ASSISTANT

E-mail Address: tyrafell@duganproduction.com

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