

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 8, 2013

1. WELL API NO:
30-045-33310

2. Well Name:
LITTLE JOE COM #090S

3. Well Number:
090S

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒Original
☐Amendment

4. Surface Hole Location:
Unit: J Lot: J Section: 14 Township: 23N Range: 11W
Feet from: 1500 N/S Line: S
Feet from: 1500 E/W Line: E

5. Bottom Hole Location:
Unit: J Lot: J Section: 14 Township: 23N Range: 11W
Feet from: 1500 N/S Line: S
Feet from: 1500 E/W Line: E

6. Latitude: 36.2234840686439 Longitude: -107.97010925823

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: 5/5/2014 Frac Performed by: Baker Hughes

12. Production Type:
G

13. Pool Code(s):
71629

14. Gross Fractured Interval:
473 ft to 536 ft

15. True Vertical Depth (TVD):
740 ft

16. Total Volume of Fluid Pumped:
31,374 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	ICAS #/ 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%
HCl, 10.1-15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0		15%
			Water	7732-18-5		85%
Alpha 1427	Baker Hughes	Biocide	Didecyl Dimethyl Ammonium Chloride	7173-51-5		10%
			Ethanol	64-17-5		5%
			Glutaraldehyde	111-30-8		3%
			Quaternary Ammonium Compound	68424-85-1		5%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0		100%
Enzyme G-I	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in the non-MSDS section of the report	N/A		0%
GBW-33D	Baker Hughes	Breaker	Hemicellulase Enzyme Concentrate	Trade Secret		100%
BC-6	Baker Hughes	Breaker Catalyst	Triethanolamine	102-71-6		60%
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7		60%
ClayCare, ClayTreat-2C, 330 gal tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1		75%
CI-27	Baker Hughes	Corrosion Inhibitor	Water	7732-18-5		30%
			Fatty Acids	Trade Secret		3%
			Methanol	67-56-1		60%
			Olefin	Trade Secret		5%
			Polyoxyalkylenes	Trade Secret		30%
			Propargyl Alcohol	107-19-7		10%
			Thiourea Polymer	68527-49-1		30%
CorrSorb 3600, 25 lb pail	Baker Hughes	Corrosion Inhibitor	Acid Phosphate Ester	Trade Secret		10%
			Crystalline Silica: Quartz	14808-60-7		1%
			Diatomaceous Earth	91053-39-3		100%
			Ethylene Glycol	107-21-1		1%
			Quaternary Ammonium Compound	Trade Secret		30%
XLW-32	Baker Hughes	Crosslinker	Boric Acid (H3BO3)	10043-35-3		30%
			Methanol	67-56-1		60%
			Methyl Borate	121-43-7		30%
FAW-22	Baker Hughes	Foamer	Alkyl Sulfate (1 of 2)	Trade Secret		5%
			Alkyl Sulfate (2 of 2)	Trade Secret		5%
			Ammonium Alkyl Ether Sulfate	Trade Secret		10%
			Isopropanol	67-63-0		30%
			Sodium Sulfonate	68439-57-6		30%
GW-3LDF	Baker Hughes	Gelling Agent	1-butoxy-2-propanol	5131-66-8		5%
			Crystalline Silica: Quartz	14808-60-7		5%
			Guar Gum	9000-30-0		60%
			Isotridecanol, ethoxylated	9043-30-5		5%
			Paraffinic Petroleum Distillate	64742-55-8		30%
			Petroleum Distillates	64742-47-8		30%
Ferrotrol 300L	Baker Hughes	Iron Control	Citric Acid	77-92-9		60%
Nitrogen	Baker Hughes	Nitrogen	Nitrogen	7727-37-9		100%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7		100%
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret		30%
			Crystalline Silica: Quartz (SiO2)	14808-60-7		1%
			Diatomaceous Earth, Calclined	91053-39-3		100%
			Phosphonic Acid	13598-36-2		1%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Methanol	67-56-1		30%
			Oxyalkylated Alkylphenol (1)	Trade Secret		10%
			Oxyalkylated Alkylphenol (2)	Trade Secret		10%
			Oxyalkylated Amine	Trade Secret		5%
			Polyoxyalkylene	Trade Secret		10%
			2-butoxy-1-propanol	15821-83-7		0%
			85% Phosphoric Acid, FG	10361-65-6		0%
			Alkyl Sulfate	Trade Secret		0%
			Boric Acid	10043-35-3		0%
			Calcium Carbonate	471-34-1		0%
			Calcium Chloride	10043-52-4		0%
			Corn Meal	N/A		0%
			Cupric Sulfate 5 H2O, ACS	7758-99-8		0%
			D-Biotin, USP	119616-38-5		0%
			Ethoxylated Alcohol	Trade Secret		0%
			Ethylene Glycol	107-21-1		0%
			Fatty Amide	70851-08-0		0%
			Derivative			
			Ferric Chloride, Hexahydrate	7705-08-0		0%
			Formaldehyde	50-00-0		0%
			Hemicellulase	9025-56-3		0%
			Enzyme Concentrate			
			Linseed Meal	8001-28-1		0%
			Magnesium Sulfate	7487-88-9		0%
			Mannan Endo-1,4-B-Mannosidase	37288-54-3		0%
			Phosphoric Acid	7664-38-2		0%
			Polyethylene Glycol	25322-68-3		0%
			Polyoxyalkylenes	78330-21-9		0%
			Potassium Hydroxide	1310-58-3		0%
			Potassium Sulfate	7778-80-5		0%
			Sodium Chloride	7647-14-5		0%
			Sodium Molybdate	7631-95-0		0%
			Sodium Sulfate	7757-82-6		0%
			Soy Isoflavone	486-66-8		0%
			Thiamine-HCl	67-03-8		0%
			Thioglycolic Acid	68-11-1		0%
			Water	7732-18-5		0%
			Yeast Extract	8013-01-2		0%
			Zinc Sulfate Heptahydrate	7446-19-7		0%

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

ENGINEERING
Title: ASSISTANT

Date: 5/27/2014

E-mail Address: tyrafeli@duganproduction.com

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