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.
30-045-35684

2. Well Name:
JIM THORPE COM #090

3. Well Number:
090

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:G Lot:G Section:3 Township:23N Range:10W
Feet from:1459 N/S Line:N
Feet from:1467 E/W Line:E

5. Bottom Hole Location:
Unit:G Lot:G Section:3 Township:23N Range:10W
Feet from:1459 N/S Line:N
Feet from:1467 E/W Line:E

6. latitude: 36.25899 longitude: -107.87974

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: 9/13/2017 Frac Performed by: Halliburton

12. Production Type:
G

13. Pool Code(s):
71629

14. Gross Fractured Interval:
1,062 ft to 1,086 ft

15. True Vertical Depth (TVD):
1,296 ft

16. Total Volume of Fluid Pumped:
25,301 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)
Fresh Water	Operator	Base Fluid	Water	7732-18-5	100%	59.43887%
BC-140	Halliburton	Crosslinker	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	Halliburton	Gelling Agent	Listed Below	Listed Below	0%	0%
Ingredients	Listed Above	Listed Above	1,2,4 Trimethylbenzene	95-63-6	1%	0.00025%
			Amine salts	Proprietary	0.1%	6E-05%
			C.I. Pigment Red 5	6410-41-9	1%	6E-05%
			Crystalline silica, quartz	14808-60-7	100%	33.6523%
			Cured acrylic resin	Proprietary	30%	0.00192%
			Enzyme	Proprietary	5%	0.00031%
			Ethanol	64-17-5	60%	0.01525%
			Ethylene glycol	107-21-1	30%	0.04225%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.00763%
			Hemicellulase enzyme	9012-54-8	30%	0.00313%
			Hydroxyalkylammonium chloride	Proprietary	60%	0.01703%
			Lactose	63-42-3	100%	0.01042%
			Monoethanolamine borate	26038-87-9	60%	0.08451%
			Naphthalene	91-20-3	5%	0.00127%
			NFIDB:WG-35	CAS Not Assigned	100%	0.17014%
			Nitrogen	7727-37-9	100%	6.52928%
			Oxylated phenolic resin	Proprietary	30%	0.01017%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-,branched	127087-87-0	5%	0.00127%
			Quaternary amine	Proprietary	5%	0.00173%
			Sodium chloride	7647-14-5	5%	0.00142%
			Walnut hulls	CAS Not Assigned	100%	0.0062%
			Water	7732-18-5	60%	0.10154%

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: 11/14/2017

E-mail Address: tyrafeil@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.