

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:
30-025-42377

2. Well Name:
IGGLES STATE COM #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:M Lot:M Section:21 Township:18S Range:34E
Feet from:330 N/S Line:S
Feet from:350 E/W Line:W

5. Bottom Hole Location:
Unit:L Lot:L Section:16 Township:18S Range:34E
Feet from:2300 N/S Line:S
Feet from:390 E/W Line:W

6. latitude: longitude:
32.72687627 -103.57277581

7. County:
Lea

8. Operator Name and Address:
COG OPERATING LLC
One Concho Center
600 W. Illinois Ave
Midland 79701

9. OGRID:
229137

10. Phone Number:
432-685-4332

11. Last Fracture Date: 8/22/2015 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
61910

14. Gross Fractured Interval:
10,107 ft to 16,835 ft

15. True Vertical Depth (TVD):
9,922 ft

16. Total Volume of Fluid Pumped:
11,650,744 gals

17. Total Volume of Re-Use Water Pumped:
N/A

18. Percent of Re-Use Water in Fluid Pumped:
Not Disclosed

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	Fresh Water	7732-18-5	100%	66.79871%
BE-9, CL-28M CROSSLINKER, CL-31 CROSSLINKER, CLA-S	Halliburton	Additive, Biocide, Breaker, Clay Stabilizer, Clay Stabilizer, Concentrate, Corrosion Inhibitor, Cross	NA	NA	0%	0%
SAND-COMMON WHITE- 100 MESH, SSA-2, 100 LB SACK (10	Halliburton	pH Control Additive, Proppant, Scale Preventer, Solvent, Surfactant	NA	NA	0%	0%
ParaSorb 5000, ScaleTrol 720	Baker Hughes	Scale Inhibitor	NA	NA	0%	0%
			Alcohols ethoxylated	Confidential	5%	0.00043%
			Alcohols, C14-C15, ethoxylated	68951-67-7	30%	0.00152%
			Alkane	Confidential	1%	0.00038%
			Amide	Confidential	5%	0.00043%
			Amine salts	Confidential	0.1%	8E-05%
			Ammonium chloride	12125-02-9	5%	0.00043%
			Ammonium persulfate	7727-54-0	100%	0.0049%
			Ammonium salt	Confidential	60%	0.0248%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	5%	0.00664%
			Borate salts	Confidential	60%	0.01746%
			Calcium chloride	10043-52-4	5%	0.00118%
			Complex alkylamine	Proprietary	5%	0.00192%
			Crystalline silica	14808-60-7	1%	7E-05%
			Crystalline silica, quartz	14808-60-7	100%	24.03132%
			Crystalline Silica, Quartz	14808-60-7	0.1%	0.00013%
			Cured acrylic resin	Confidential	30%	0.00147%
			Diatomaceous earth, calcined	91053-39-3	60%	0.00424%
			Ethylene glycol	107-21-1	30%	0.00709%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.01%	0%
			Fatty acids, tall oil	Confidential	30%	0.00152%
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.01366%
			Guar gum	9000-30-0	100%	0.13289%
			Hydrochloric acid	7647-01-0	60%	0.47192%
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.00256%
			Inorganic mineral	Confidential	5%	0.00146%
			Methanol	67-56-1	60%	0.00305%
			Mineral Oil	8042-47-5	30%	0.00212%
			Olefins	Confidential	5%	0.00061%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl- omega.-hydroxy-	61827-42-7	30%	0.01154%
			Polylacrylamide copolymer	Confidential	30%	0.00256%
			Polypichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00726%
			Polymer	Proprietary	1%	0.00029%
			Potassium hydroxide	1310-58-3	5%	0.00063%
			Potassium metaborate	13709-94-9	60%	0.00751%
			Propargyl alcohol	107-19-7	10%	0.00051%
			Quaternary amine	Confidential	5%	0.00252%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00152%
			Silica gel	112926-00-8	1%	0.00133%
			Sodium bicarbonate	144-55-8	0.01%	0%
			Sodium chloride	7647-14-5	5%	0.0026%
			Sodium hydroxide	1310-73-2	30%	0.00322%
			Sodium perborate tetrahydrate	10486-00-7	100%	0.00041%
			Sodium persulfate	7775-27-1	100%	9E-05%
			Sodium sulfate	7757-82-6	0.1%	0%
			Sorbitan monooleate	9005-65-6	1%	9E-05%
			polyoxyethylene derivative			
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	1%	9E-05%
			Surfactant mixture	Confidential	1%	0.00266%
			Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00364%
			Trimethylamine, N-oxide	1184-78-7	5%	0.00061%
			Water	7732-18-5	100%	0.93837%

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: Stormi Davis

Date: 10/16/2015

E-mail Address: sdavis@conchoresources.com

Title: Regulatory Analyst

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.