

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:
30-015-42497

2. Well Name:
CRAIG STATE #005H

3. Well Number:
005H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:36 Township:25S Range:26E
Feet from:190 N/S Line:N
Feet from:660 E/W Line:E

5. Bottom Hole Location:
Unit:P Lot:P Section:36 Township:25S Range:26E
Feet from:330 N/S Line:S
Feet from:688 E/W Line:E

6. latitude: longitude:
32.0930001618119 -104.240103015771

7. County:
Eddy

9. 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: 1/10/2015 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
97318

14. Gross Fractured Interval:
7,574 ft to 11,722 ft

15. True Vertical Depth (TVD):
7,410 ft

16. Total Volume of Fluid Pumped:
4,854,423 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)
Water	Operator	Carrier	Water	7732-18-5	100%	84.78667%
HCl, 5.1 - 7.5%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	7.5%	0.11945%
Superset-W, 330 gl tote	Baker Hughes	Activator	Methanol Poly (Oxyethylene) Nonylphenol Ether	67-56-1 9016-45-9	50%	0.01849%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.01247%
GBW-5	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.00042%
Enzyme G-III	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in the non-MSDS section of the report	NA	0%	0%
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.00293%
Clay Master-5C (Tote)	Baker Hughes	Clay Control	Oxyakylated Amine Quat	Trade Secret	60%	0.00862%
Ferrotrol 280L , 330 gl tote	Baker Hughes	Clay Control	2-Mercaptoethanol Ammonium Hydroxide Cupric Chloride	60-24-2 1336-21-6 7447-39-4	100%	0.00452%
ClayCare, Clay Treat-2C, 330 gl tote	Baker Hughes	Clay Control	Choline Chloride Water	67-48-1 7732-18-5	75%	0.03596%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids Methanol Olefin Polyoxyalkylenes Propargyl Alcohol Thiourea Polymer	Trade Secret 67-56-1 Trade Secret Trade Secret 107-19-7 68527-49-1	30%	0.00062%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol Sodium Hydroxide Sodium Tetraborate Guar Gum	107-21-1 1310-73-2 1330-43-4 9000-30-0	30%	0.01712%
GW-4	Baker Hughes	Gelling Agent	Acetic acid ethenyl ester, polymer with ethene	Trade Secret	15%	0.00222%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Crystalline Silica (Cristobalite) Crystalline Silica (Quartz) Diatomaceous Earth, Calcined (kieselguhr) Diatomaceous Earth, Natural (kieselguhr) Mineral Oil	14464-46-1 14808-60-7 91053-39-3 61790-53-2 Trade Secret	1%	0.00015%
Parasorb 5000, bag	Baker Hughes	Paraffin Inhibitor	Crystalline Silica (Quartz)	14808-60-7	100%	10.47484%
Sand, White, 20/40	Baker Hughes	Proppant	P/F Resin Silicon Dioxide (Silica Sand)	9003-35-4 14808-60-7	5%	0.13052%
Super LC, 20/40	Baker Hughes	Proppant	Amino Trimethylene Phosphonic Acid Crystalline Silica (Quartz)	Trade Secret 14808-60-7	28%	0.00337%
ScaleSorb 3, (50# bag)	Baker Hughes	Scale Inhibitor	Calcium Chloride Ethylene Glycol Ethanol	10043-52-4 107-21-1 64-17-5	5%	0.00046%
Scaletrol 720, 330 gl tote	Baker Hughes	Scale Inhibitor	2-Propanoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9	0%	0.0018249%
InFlo 251G	Baker Hughes	Surfactant	Alcohols, C10-16, ethoxylated propoxylated Alcohols, C6-12, ethoxylated propoxylated Alcohols, ethoxylated Amines, unsatd, alkyl, ethoxylated Benzenesulfonic acid, hexadecyl(sulfo)phenoxy)-, disodium salt Crystalline Silica: Cristobalite Diatomaceous Earth, Calcined Formaldehyde Hemicellulase Enzyme Concentrate Hexamethylenetetramine Hydrated Magnesium Silicate Methanol Nonionic glycol ester Phosphonic Acid Poly (Tetrafluoroethylene) Potassium Chloride Sodium Chloride Sodium lauriminodipropionate Sodium octylimodipropionate Vinylidene Chloride-Methyl Acrylate Polymer Water	Trade Secret Trade Secret Trade Secret Trade Secret Trade Secret Trade Secret 91053-39-3 50-00-0 9025-56-3 100-97-0 Trade Secret 67-56-1 Trade Secret 13598-36-2 Trade Secret 7447-40-7 7647-14-5 Trade Secret Trade Secret Trade Secret 7732-18-5	0%	0.0028901%

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 Title: Regulatory Analyst

Date: 2/10/2015

E-mail Address: sdavis@conchoresources.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.