

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.
30-025-41542

2. Well Name:
KING TUT FEDERAL #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:D Lot:D Section:30 Township:24S Range:32E
Feet from:190 N/S Line:N
Feet from:330 E/W Line:W

5. Bottom Hole Location:
Unit:M Lot:4 Section:31 Township:24S Range:32E
Feet from:367 N/S Line:S
Feet from:382 E/W Line:W

6. latitude: longitude:
32.1950390073808 -103.72192372013

7. County:
Lea

8. Operator Name and Address:
COG PRODUCTION, LLC
600 W. Illinois Ave
Midland 79701

9. OGRID: 217955

10. Phone Number: 432-685-4372

11. Last Fracture Date: 12/29/2014 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
96629

14. Gross Fractured Interval:
8,596 ft to 17,990 ft

15. True Vertical Depth (TVD):
8,397 ft

16. Total Volume of Fluid Pumped:
4,065,585 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		85.9361%
FE Acid < 10%	Halliburton				100%	2.75352%
20/40 Premium Brown	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	7.5336%
CRC - 20/40	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	3.20531%
			Hexamethylenetetramine	100-97-0	2%	0.06411%
			Phenol / formaldehyde resin	9003-35-4	5%	0.16027%
LOSURF-360	Halliburton	Surfactant	Complex Alkylamine	100545-50-4	5%	0.00185%
			Poly(oxy-1,2-ethanediyl), alpha -isodecyl- omega -hydroxy-	61827-42-7	30%	0.01107%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00076%
Cia-Web(TM)	Halliburton	Additive	Ammonium salt	Confidential	60%	0.03053%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.05144%
			Ethoxylated nonylphenol	Confidential	60%	0.05144%
Hph BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	8E-05%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polypichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.01545%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00331%
			Propargyl alcohol	107-19-7	10%	0.00055%
SALT	Halliburton	Additive	Sodium chloride	7647-14-5	100%	0.04094%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential	100%	0.00728%
			Silica, amorphous precipitated	67762-90-7	30%	0.00218%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.02199%
			Monothanolamine borate	26038-87-9	100%	0.07329%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00212%
			Walnut hulls	Mixture	100%	0.00707%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	8E-05%
Scalechek(R) SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glaassy calcium magnesium phosphate	65997-17-3	100%	0.02978%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.18139%
SALT	Halliburton	Additive	Sodium chloride	7647-14-5	100%	0.01901%
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0%	0%
			Alcohols, C14-C15, ethoxylated	68951-67-7	0%	0%
			Alkane	Confidential	0%	0%
			Amine salts	Confidential	0%	0%
			Amine salts	Confidential	0%	0%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			C.I. Pigment Red 5	6410-41-9	0%	0%
			Calcium chloride	10043-52-4	0%	0%
			Crystalline Silica, Quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential	0%	0%
			Cured acrylic resin	Confidential	0%	0%
			Enzyme	Confidential	0%	0%
			Enzyme	Confidential	0%	0%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0%	0%
			Fatty acids, tall oil	Confidential	0%	0%
			Olefins	Confidential	0%	0%
			Olefins	Confidential	0%	0%
			Olefins	Confidential	0%	0%
			Olefins	Confidential	0%	0%
			Polypropylene glycol	25322-69-4	0%	0%
			Quaternary amine	Confidential	0%	0%
			Quaternary amine	Confidential	0%	0%
			Quaternary amine	Confidential	0%	0%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium bicarbonate	144-55-8	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Surfactant mixture	Confidential	0%	0%
			Surfactant mixture	Confidential	0%	0%
			Trimethylamine, N-oxide	1184-78-7	0%	0%
			Water	7732-18-5	0%	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: Stormi Davis

Senior Regulatory Title: Analyst

Date: 2/10/2015

E-mail Address: sdavis@concho.com

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