

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:
30-015-42034

2. Well Name:
KLEIN 33 FEDERAL COM #006H

3. Well Number:
006H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:C Lot:C Section:33 Township:26S Range:27E
Feet from:210 N/S Line:S
Feet from:2000 E/W Line:W

5. Bottom Hole Location:
Unit:C Lot:C Section:33 Township:26S Range:27E
Feet from:210 N/S Line:S
Feet from:2000 E/W Line:W

6. latitude: longitude:
32.0005609572538 -104.196793335602

7. County:
Eddy

8. Operator Name and Address:
CIMAREX ENERGY CO.
600 N MARIENFELD STREET
SUITE 600
MIDLAND 79701

9. OGRID: 215099

10. Phone Number:

11. Last Fracture Date: 4/25/2015 Frac Performed by: Schlumberger

12. Production Type:
O

13. Pool Code(s):
98017

14. Gross Fractured Interval:
9,600 ft to 9,796 ft

15. True Vertical Depth (TVD):
9,796 ft

16. Total Volume of Fluid Pumped:
9,576,745 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)
WF115, Slickwater	Schlumberger	Bactericide (Myacide GA25), Surfactant , Breaker, Gelling Agent, Friction Reducer, Clay Control Agen	Water (Including Mix Water Supplied by Client)	NA	0%	90.35432%
			Quartz, Crystalline silica	14808-60-7	98.25618%	9.45111%
			Guar gum	9000-30-0	0.33919%	0.03263%
			Sodium chloride	7647-14-5	0.17868%	0.01719%
			Magnesium chloride	7786-30-3	0.16747%	0.01611%
			Polyethylene glycol monohexyl ether	31726-34-8	0.10843%	0.01043%
			Diammonium peroxidisulphate	7727-54-0	0.02656%	0.00256%
			Calcium chloride	10043-52-4	0.02345%	0.00226%
			Ammonium sulfate	7783-20-2	0.01837%	0.00177%
			Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt polymer	38193-60-1	0.01349%	0.0013%
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00457%	0.00044%
			Potassium chloride (impurity)	7447-40-7	0.00446%	0.00043%
			Vinylidene chloride/methylacrylate copolymer	25038-72-6	0.00384%	0.00037%
			Glutaraldehyde	111-30-8	0.00156%	0.00015%
			Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	136793-29-8	0.00145%	0.00014%
			Non-crystalline silica (impurity)	7631-86-9	0.00104%	0.0001%
			Propan-2-ol	67-63-0	0.00093%	9E-05%
			Urea	57-13-6	0.00093%	9E-05%
			Sodium sulfate	7757-82-6	0.00021%	2E-05%
			Magnesium silicate hydrate (talc)	14807-96-6	0.0001%	1E-05%
			poly(tetrafluoroethylene)	9002-84-0	0.0001%	1E-05%
			2-propenamid	GeDeral	0.0001%	1E-05%
			Tetrasodium ethylenediaminetetraacetate	GeDeral	0.0001%	1E-05%
			Dimethyl siloxanes and silicones	63148-62-9	0.0001%	1E-05%
			Siloxanes and silicones, dimethyl, reaction products with silica	67762-90-7	0.0001%	1E-05%
			Octamethylcyclotetrasiloxane	556-67-2	0.0001%	1E-05%
			Decamethyl cyclopentasiloxane	GeDeral	0.0001%	1E-05%
			Copper(II) sulfate	7758-98-7	0.0001%	1E-05%
			Dodecamethylcyclohexasiloxane	540-97-6	0.0001%	1E-05%
HCL 15%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	0.02874%	0.00276%
Mud Acid 7.5%	Petroplex	Acid	Hydrochloric Acid	7647-01-0	0.05549%	0.00534%
ABF	Petroplex	Acid	Ammonium Hydrogen Fluoride	1341-49-7	0.13544%	0.01303%
Cronox AK-50	Petroplex	Corrosion Inhibitor	Ammonium Fluoride	12125-01-8	0.00713%	0.00069%
			Oxyalkylated Alkylphenol	Proprietary	0.00052%	5E-05%
			Heavy Aromatic Naptha	64742-94-5	0.00052%	5E-05%
			Isopropanol	67-63-0	0.00052%	5E-05%
			Fatty Acids	Proprietary	0.00017%	2E-05%
			Complex Alkylaryl Polyo-Ester	Proprietary	0.00017%	2E-05%
			Tar Bases, Quinoline Derivatives, Benzyl Chloride-Quaternized	72480-70-7	0.00017%	2E-05%
			Formaldehyde	50-00-0	0.00017%	2E-05%
			Acetylenic Alcohol	Proprietary	9E-05%	1E-05%
			Propargyl Alcohol	107-19-7	9E-05%	1E-05%
			Napthalene	91-20-3	9E-05%	1E-05%
			Citric Acid	77-92-9	0.04794%	0.00461%
			Heavy Aromatic Naptha	64742-94-5	0.00017%	2E-05%
			Isopropanol	67-63-0	0.00099%	0.0001%
			Polyethylene Glycol	25322-68-3	8E-05%	1E-05%
Citric Acid EC9546A	Petroplex	Surfactant	Napthalene	91-20-3	2E-05%	0%
			Phosphoric Acid Ester	Proprietary	0.00017%	2E-05%
			Oxyalkylated Alcohol	Proprietary	0.00017%	2E-05%
			Oxyalkylated Alkyl Alcohol	Proprietary	0.00017%	2E-05%
			Chlorine Dioxide	10049-04-4	0.00177%	0.00017%
ClO2	Bosque	Biocide			0%	0%
† Proprietary Technology					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: Skipper Herring

Manager Stimulation
Title: Operations

Date: 5/27/2015

E-mail Address: sherring@cimarex.com

NMOC

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