

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:
30-045-24250

2. Well Name:
GALLEGOS CANYON UNIT #172E

3. Well Number:
172E

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒Original
☐Amendment

4. Surface Hole Location:
Unit:N Lot:N Section:25 Township:29N Range:13W
Feet from:960 N/S Line:S
Feet from:1530 E/W Line:W

5. Bottom Hole Location:
Unit:N Lot:N Section:25 Township:29N Range:13W
Feet from:960 N/S Line:S
Feet from:1530 E/W Line:W

6. Latitude:
36.6926210084523 Longitude:
-108.161252223088

7. County:
San Juan

8. Operator Name and Address:
BP AMERICA PRODUCTION COMPANY
501 Westlake Park Blvd.
Houston 77079

9. OGRID:
778

10. Phone Number:
281-366-7148

11. Last Fracture Date: 6/30/2014 Frac Performed by: Baker Hughes

12. Production Type:
G

13. Pool Code(s):
97232

14. Gross Fractured Interval:
5,621 ft to 5,630 ft

15. True Vertical Depth (TVD):
6,359 ft

16. Total Volume of Fluid Pumped:
15,624 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%	53.31124%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.27508%
			Water	7732-18-5	85%	1.55878%
Alpha 1427	Baker Hughes	Biocide	Didecyl Dimethyl Ammonium Chloride	7173-51-5	10%	0.00358%
			Ethanol	64-17-5	5%	0.00179%
			Glutaraldehyde	111-30-8	30%	0.01074%
			Quaternary Ammonium Compound	68424-85-1	5%	0.00179%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.00818%
Enzyme G-I	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%	0.01923%
BF-7L	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.04512%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.08934%
			Water	7732-18-5	30%	0.03574%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Proprietary	30%	0.00182%
			Methanol	67-56-1	60%	0.00364%
			Olefin	Proprietary	5%	0.0003%
			Polyoxyalkylenes	Proprietary	30%	0.00182%
			Propargyl Alcohol	107-19-7	10%	0.00061%
			Thiourea Polymer	68527-49-1	30%	0.00182%
XLW-32	Baker Hughes	Crosslinker	Boric Acid (H3BO3)	10043-35-3	30%	0.0139%
			Methanol	67-56-1	60%	0.02781%
			Methyl Borate	121-43-7	30%	0.0139%
FAW-22	Baker Hughes	Foamer	Alkyl Sulfate (1 of 2)	Proprietary	5%	0.01188%
			Alkyl Sulfate (2 of 2)	Proprietary	5%	0.01188%
			Ammonium Alkyl Ether Sulfate	Proprietary	10%	0.02376%
			Isopropanol	67-63-0	30%	0.07128%
			Sodium Sulfonate	68439-57-6	30%	0.07128%
			1-butoxy-2-propanol	5131-66-8	5%	0.03035%
			Crystalline Silica (Quartz)	14808-60-7	5%	0.03035%
			Guar Gum	9000-30-0	60%	0.36423%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.03035%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.18211%
			Petroleum Distillates	64742-47-8	30%	0.18211%
Ferrotrol 300L	Baker Hughes	Iron Control	Citric Acid	77-92-9	60%	0.00774%
Nitrogen	Baker Hughes	Nitrogen	Liquid Nitrogen	7727-37-9	100%	20.26822%
NE-900	Baker Hughes	Non-emulsifier	Methanol	67-56-1	30%	0.00898%
			Nonyl phenyl polyethylene glycol ether	9016-45-9	10%	0.00299%
Sand, Brown, 16/30	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	22.95821%
GasFlo G	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.01327%
			Oxyalkylated Alkylphenol (1)	Proprietary	10%	0.00442%
			Oxyalkylated Alkylphenol (2)	Proprietary	10%	0.00442%
			Oxyalkylated Amine	Proprietary	5%	0.00221%
			Polyoxyalkylene	Proprietary	10%	0.00442%
Ingredients shown above are subject to 29 CFR 1910					0%	0%
None Indicated	Baker Hughes	None Indicated	2-butoxy-1-propanol	15821-83-7	0%	0.00061%
			Alkyl Sulfate	Proprietary	0%	0.00238%
			Copolymer	Proprietary	0%	0.01198%
			Cured Resin	Proprietary	0%	0.00462%
			Ethoxylated Alcohol	Proprietary	0%	0.00238%
			Ethylene Glycol	107-21-1	0%	0.00238%
			Fatty Amide Derivative	70851-08-0	0%	0.00238%
			Formaldehyde	50-00-0	0%	0.00238%
			Hemicellulase Enzyme Concentrate	9025-56-3	0%	0.00102%
			Potassium Hydroxide	1310-58-3	0%	0.00075%
			Sodium Chloride	7647-14-5	0%	0.00241%
			Sodium Sulfate	7757-82-6	0%	0.00238%
			Water	7732-18-5	0%	0.25364%

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: Toya Colvin Title: Regulatory Analyst

Date: 7/10/2014

E-mail Address: toya.colvin@bp.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.