

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:
30-039-31219

2. Well Name:
LYBROOK A12 2306 #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒Original
☐Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:12 Township:23N Range:06W
Feet from:81 Feet from:264 N/S Line:N E/W Line:E

5. Bottom Hole Location:
Unit:P Lot: Section:12 Township:23N Range:06W
Feet from:350 Feet from:432 N/S Line:S E/W Line:E

6. latitude: longitude:
36.2471616312323 -107.411897262977

7. County:
Rio Arriba

8. Operator Name and Address:
ENCANA OIL & GAS (USA) INC.
370 17th Street, Suite 1700
Denver 80202

9. OGRID: 282327 10. Phone Number: 720-876-3989

11. Last Fracture Date: 1/16/2015 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
13379

14. Gross Fractured Interval:
5,984 ft to 10,593 ft

15. True Vertical Depth (TVD):
10,595 ft

16. Total Volume of Fluid Pumped:
983,921 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%	65.3558603%
Alpha 1427	Baker Hughes	Biocide	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0028058%
X-Cide 725, tote	Baker Hughes	Biocide	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0209674%
GBW-5	Baker Hughes	Breaker	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0012025%
Enzyme G-I	Baker Hughes	Breaker	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0167103%
High Perm CRB	Baker Hughes	Breaker	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0016033%
BF-9L, 300 gal tote	Baker Hughes	Buffer	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0837143%
ClayCare, ClayTreat-2C, 330 gl tote	Baker Hughes	Clay Control	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0759938%
XLW-4	Baker Hughes	Crosslinker	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0773976%
FAW-22, 260 gal. tote	Baker Hughes	Foamer	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.2598379%
GW-3LDF	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.3875082%
NE-900, drum	Baker Hughes	Non-emulsifier	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0672608%
Sand, Brown, 20/40	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	30.31203%
Sand, Brown, 16/30	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	2.853117%
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0128266%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	0.0607095%
Ingredients in Additive(s) (MSDS and non-MSDS)	Baker Hughes	See Trade Name(s) List	1-butoxy-2-propanol	5131-66-8	5%	0.0192545%
			2-Methyl-2-nitropropane-1,3-diol	77-49-6	1%	0.0002084%
			2-butoxy-1-propanol	15821-83-7	0.1%	0.0003851%
			Alcohols, ethoxylated	68551-12-2	10%	0.0060331%
			Amines, unsatd, alkyl, ethoxylated	68155-39-5	5%	0.0030165%
			Amino Trimethylene Phosphonic Acid	6419-19-8	28%	0.0035669%
			Ammonium Alkyl Ether Sulfate	78330-26-4	10%	0.0258216%
			Ammonium Persulfate	7727-54-0	100%	0.0027883%
			Choline Chloride	67-48-1	75%	0.0566396%
			Crystalline Cristobalite	14464-46-1	1%	0.0001275%
			Crystalline Silica (Quartz)	14808-60-7	100%	32.9582911%
			Crystalline Silica: Quartz	14808-60-7	5%	0.0192545%
			Diatomaceous Earth, Calcined	91053-39-3	74%	0.0094324%
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	10%	0.0002788%
			Ethanol	64-17-5	5%	0.0001394%
			Ethoxylated Alcohol	68439-46-3	1%	0.0025822%
			Ethylene Glycol	107-21-1	1%	0.0025822%
			Fatty Amide	70851-08-0	1%	0.0025822%
			Derivative			
			Formaldehyde	50-00-0	1%	0.0027905%
			Glutaraldehyde	111-30-8	30%	0.0008365%
			Glycerin	8043-29-6	25%	0.0192286%
			Guar Gum	9000-30-0	60%	0.2310539%
			Hemicellulase	9025-56-3	3%	0.0004982%
			Enzyme Concentrate			
			Hydrated Magnesium Silicate	14807-96-6	1%	1.59E-05%
			Isopropanol	67-63-0	30%	0.0774649%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.0192545%
			Methanol	67-56-1	30%	0.0381515%
			Mineral Oil	8042-47-5	70%	0.2695628%
			Nitromethane	75-52-5	1%	0.0002084%
			Oxyalkylated	9016-45-9	10%	0.0066841%
			Alkylphenol			
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.1155269%
			Petroleum Distillates	64742-47-8	30%	0.1155269%
			Phosphonic Acid	13598-36-2	1%	0.0001275%
			Poly (Tetrafluoroethylene)	9002-84-0	0.5%	8E-06%
			Polyamines	68815-65-1	40%	0.0267364%
			Polyethylene glycol nonylphenyl ether	9016-45-9	15%	0.0090496%
			Potassium Carbonate	584-08-7	60%	0.0499152%
			Potassium Hydroxide	1310-58-3	30%	0.0249576%
			Quaternary Ammonium Compound	68424-85-1	5%	0.0001394%
			Sodium Chloride	7647-14-5	1%	0.0025822%
			Sodium Sulfate	7757-32-6	1%	0.0025822%
			Sodium Sulfonate	68439-57-6	30%	0.0774649%
			Sodium Tetraborate	1303-96-4	30%	0.0230744%
			Sulfuric acid, monodecyl ester, sodium salt (1:1)	142-87-0	5%	0.0129108%
			Sulfuric acid, monohexyl ester, sodium salt (1:1)	2207-98-9	1%	0.0025822%
			Sulfuric acid, monooctyl ester, sodium salt (1:1)	142-31-4	5%	0.0129108%
			Tris(hydroxymethyl) nitromethane	126-11-4	30%	0.006251%
			Vinylidene Chloride-Methyl Acrylate Polymer	25038-72-6	25%	0.0003963%
			Water	7732-18-5	97%	0.3826595%

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: BRENDA R LINSTER Title: _____

Date: 4/29/2015

E-mail Address: brenda.linster@encana.com

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