

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:
30-043-21133

2. Well Name:
LYBROOK H26 2307 #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:H Lot:H Section:26 Township:23N Range:07W
Feet from:2227 N/S Line:N
Feet from:357 E/W Line:E

5. Bottom Hole Location:
Unit:E Lot Section:26 Township:23N Range:07W
Feet from:1557 N/S Line:N
Feet from:349 E/W Line:W

6. latitude: 36.198166308932 longitude: -107.536960577364

7. County:
Sandoval

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: 8/19/2014 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
97232

14. Gross Fractured Interval:
5,835 ft to 9,771 ft

15. True Vertical Depth (TVD):
9,830 ft

16. Total Volume of Fluid Pumped:
2,232,183 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		52.123995%
Alpha 1427	Baker Hughes	Biocide	Didecyl Dimethyl Ammonium Chloride	7173-51-5	10%	0.002881%
			Ethanol	64-17-5	5%	0.0014405%
			Glutaraldehyde	111-30-8	30%	0.0086431%
			Quaternary Ammonium Compound	68424-85-1	5%	0.0014405%
BioSealers MR	Baker Hughes	Degradable Sealers	Non-Hazardous Ingredient	NA	100%	0.0026023%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	6.1E-06%
			Methanol	67-56-1	60%	1.22E-05%
			olefin	Trade Secret	5%	1E-06%
			Polyoxyalkylenes	Trade Secret	30%	6.1E-06%
			Propargyl Alcohol	107-19-7	10%	2E-06%
			Thiourea Polymer	68527-49-1	30%	6.1E-06%
Calcium Chloride	Baker Hughes	Salts	Calcium Chloride	10043-52-4	100%	0.0016436%
			Potassium Chloride	7447-40-7	5%	8.22E-05%
			Sodium Chloride	7447-40-7	5%	8.22E-05%
ClayCare, ClayTreat-2C, 330 gl tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.0220337%
ClayCare, tote	Baker Hughes	Clay Control	Water	7732-18-5	30%	0.0088135%
			Choline Chloride	67-48-1	75%	0.0209498%
CorrSorb 3600, 25 lb pail	Baker Hughes	Corrosion Inhibitor	Water	7732-18-5	30%	0.0083799%
			Acid Phosphate Ester	9046-01-9	10%	0.0004383%
			Crystalline Silica: Quartz	14808-60-7	1%	4.38E-05%
			Ethylene Glycol	107-21-1	1%	4.38E-05%
			Quaternary Ammonium Compound	61789-71-7	30%	0.0013149%
Enzyme G-III	Baker Hughes	Breaker	Contains non-hazardous ingredients which are listed in the non-MSDS section of the report	NA	0%	0%
FAW-1	Baker Hughes	Foamer	Methanol	67-56-1	30%	0.035627%
			Quaternary Ammonium compound	Trade Secret	60%	0.0716541%
FAW-22, 260 gal. tote	Baker Hughes	Foamer	Sodium Chloride	7647-14-5	5%	0.0059712%
			Alkyl Sulfate (1 of 2)	Trade Secret	2%	0.0018377%
			Alkyl Sulfate (2 of 2)	Trade Secret	2%	0.0018377%
			Ammonium Alkyl Ether Sulfate	Trade Secret	9%	0.0062696%
			Isopropanol	67-63-0	17%	0.0156204%
			Sodium Sulfonate	68439-57-6	24%	0.0220524%
FRW-20	Baker Hughes	Friction Reducer	Petroleum Distillates	64742-47-8	30%	1.45E-05%
Ferrotrol 300L (Totes)	Baker Hughes	Iron Control	Citric Acid	77-92-9	60%	5.18E-05%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.0004931%
GW-3LDF	Baker Hughes	Gelling Agent	1-butoxy-2-propanol	5131-66-8	5%	0.0147052%
			Crystalline Silica: Quartz	14808-60-7	5%	0.0147052%
			Guar Gum	9000-30-0	60%	0.1764628%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.0147052%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.0882314%
GasFlo G, 330 gal tote	Baker Hughes	Surfactant	Petroleum Distillates	64742-47-8	30%	0.0882314%
			Methanol	67-56-1	30%	0.0139188%
			Mixture of Surfactants	Trade Secret	60%	0.0144892%
			Oxyalkylated Alkylphenol (1)	Trade Secret	10%	0.0022247%
			Oxyalkylated Alkylphenol (2)	Trade Secret	10%	0.0022247%
			Oxyalkylated Amine	Trade Secret	5%	0.0011124%
			Polyoxyalkylene	Trade Secret	10%	0.0022247%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Water	7732-18-5	50%	0.0120743%
			Hydrochloric Acid	7647-01-0	15%	0.0165714%
NE-900, drum	Baker Hughes	Non-emulsifier	Water	7732-18-5	85%	0.0939046%
			Ethoxylated nonylphenol	9016-45-9	10%	0.0026836%
NE-900, tote	Baker Hughes	Non-emulsifier	Methanol	67-56-1	30%	0.0080507%
			Ethoxylated nonylphenol	9016-45-9	10%	0.0026234%
			Methanol	67-56-1	30%	0.0078703%
Nitrogen	Baker Hughes	Nitrogen	Nitrogen	7727-37-9	100%	21.2822294%
Parasorb 5005, 50 lb bag	Baker Hughes	Paraffin Inhibitor	Acetic Acid ethylenyl ester, polymer with ethene	Trade Secret	4%	0.0005972%
			Calcined Diatomaceous Earth	91053-39-3	70%	0.0104503%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0.0001493%
			Diatomaceous Earth, Natural	61790-53-2	3%	0.0004479%
			Heavy Aromatic Naptha	64742-94-5	5%	0.0007465%
			Mineral Oil	8042-47-5	4%	0.005972%
			Naphthalene	91-20-3	1%	0.0001493%
			Olefin/Maleic Ester	Trade Secret	18%	0.0026872%
			Trimethylenbenzenes	95-63-6	1%	0.0001493%
Sand, Brown, 12/20	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	2.0979346%
Sand, Brown, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	23.4909634%
ScaleSorb 3, (25# pail)	Baker Hughes	Scale Inhibitor	Amino Alkyl Phosphonic Acid	Trade Secret	30%	0.0023421%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	7.81E-05%
			Diatomaceous Earth, Calcined	91053-39-3	100%	0.0078069%
			Phosphonic Acid	13598-36-2	1%	7.81E-05%
N/A		Other Chemicals	2-butoxy-1-propanol	15821-83-7	0%	0.0002941%
			Aliphatic Hydrocarbon	Trade Secret	0%	1.13E-05%
			Alkyl Sulfate	Trade Secret	0%	0.0009188%
			Cocamidopropyl Betaine	61789-40-0	0%	0%
			Crystalline Silica (Cristobalite)	14464-46-1	0%	0.0001493%
			Ethoxylated Alcohol	Trade Secret	0%	0.0009188%
			Ethylene Glycol	107-21-1	0%	0.0009188%
			Fatty Amide Derivative	70651-08-0	0%	0.0009188%
			Formaldehyde	50-00-0	0%	0.0009189%
			Hemicellulase	9025-56-3	0%	1.9E-05%
			Enzyme Concentrate			
			Oxyalkylated Alcohol	Trade Secret	0%	1E-06%
			Polyamines	Trade Secret	0%	0.0212281%
			Polyglycol Ester	Trade Secret	0%	4E-07%
			Polyol Ester	Trade Secret	0%	5E-07%
			Sodium Chloride	7647-14-5	0%	0.0009209%
			Sodium Sulfate	7757-82-6	0%	0.0009188%
			Vinyl Copolymer	Trade Secret	0%	1.36E-05%
			Water	7732-18-5	0%	0.128937%

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
Date: 2/2/2015
E-mail Address: brenda.linster@encana.com

Printed Name: BRENDA R LINSTER

Title:

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