

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

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:18 Township:24S Range:31E
Feet from:150 N/S Line:N
Feet from:505 E/W Line:E

5. Bottom Hole Location:
Unit:P Lot: Section:18 Township:24S Range:31E
Feet from:45 N/S Line:S
Feet from:500 E/W Line:E

6. latitude: longitude:
32.22418051 -103.8100238

7. County:
Eddy

8. Operator Name and Address:
OXY USA INC
PO Box 4294
Houston 77210

9. OGRID: 16696

10. Phone Number: 713-366-5716

11. Last Fracture Date: 11/16/2016 Frac Performed by: SCHLUMBERGER

12. Production Type:
O

13. Pool Code(s):
96202

14. Gross Fractured Interval:
11,759 ft to 16,145 ft

15. True Vertical Depth (TVD):
11,613 ft

16. Total Volume of Fluid Pumped:
7,326,233 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)
Proppant Transport	Schlumberger	Acid Corrosion Inhibitor, Demulsifier, Scale Inhibitor, Water Gelling Agent, Temporary Clay Stabiliz	Water (Including Mix Water Supplied by Client)*	CAS Not Assigned		0%
			1, 2, 3- Propanetriol	56-81-5	0.0042%	4E-05%
			Tetrasodium ethylenediaminetetraacetate	Ge0eral	0.00744%	0.00074%
			Ethanol	64-17-5	1E-05%	1E-05%
			Acetic acid	64-19-7	1E-05%	1E-05%
			2-hydroxy-N,N,N-trimethylethanaminium chloride	67-48-1	0.42344%	0.04205%
			Propan-2-ol	67-63-0	0.00587%	0.00058%
			Oxirane	75-21-8	1E-05%	1E-05%
			Propylene oxide	75-56-9	1E-05%	1E-05%
			2-Propenamid (impurity)	Ge0eral	0.00058%	6E-05%
			Cinnamaldehyde	104-55-2	0.00052%	5E-05%
			Ethylene Glycol	107-21-1	0.29668%	0.02946%
			Fumaric acid	110-17-8	0.00856%	0.00085%
			Glutaraldehyde	111-30-8	0.00197%	0.0002%
			Oleic acid	112-80-1	1E-05%	1E-05%
			1,4-Dioxane (impurity)	123-91-1	1E-05%	1E-05%
			Acetic acid, potassium salt	Ge0eral	1E-05%	1E-05%
			Disodium Ethylene Diamine Tetra Acetate (impurity)	139-33-3	0.0002%	2E-05%
			Potassium oleate	143-18-0	1E-05%	1E-05%
			Trisodium Ethylenediaminetetraacetate (impurity)	150-38-9	0.0002%	2E-05%
			Sodium sulfoxyanate	540-72-7	0.00335%	0.00033%
			Sodium hydroxide	1310-73-2	0.02988%	0.00297%
			Boronatrocalcite	1319-33-1	0.32544%	0.03232%
			Sodium tetraborate	1330-43-4	0.02741%	0.00272%
			Sorbitan monooleate	1338-43-8	0.01289%	0.00128%
			Sodium Glycolate (impurity)	2636-32-0	0.0006%	6E-05%
			Trisodium nitrilotriacetate (impurity)	5064-31-3	0.0001%	1E-05%
			Silicon Dioxide	7631-86-9	0.00204%	0.0002%
			Hydrochloric acid	7647-01-0	0.3264%	0.0309%
			Sodium chloride	7647-14-5	0.04764%	0.00473%
			Monosodium fumarate	7704-73-6	0.00856%	0.00085%
			Diammonium peroxodisulphate	7727-54-0	0.04733%	0.0047%
			Magnesium chloride	7786-30-3	0.07145%	0.0071%
			Guar gum	9000-30-0	0.76173%	0.07565%
			poly(tetrafluoroethylene)	9002-84-0	5E-05%	1E-05%
			Dodecyl poly(oxethylene) ether	9002-92-0	6E-05%	1E-05%
			Methyl oxirane polymer with oxirane	Ge0eral	8E-05%	1E-05%
			Ethoxylated oleic acid	9004-96-0	0.01289%	0.00128%
			Boric acid	10043-35-3	0.00856%	0.00085%
			Calcium chloride	10043-52-4	0.00953%	0.00095%
			2-Propenoic acid, ammonium salt	10604-69-0	0.00316%	0.00031%
			Ammonium chloride	12125-02-9	0.06446%	0.0064%
			Magnesium silicate hydrate (talc)	14807-96-6	0.00012%	1E-05%
			Quartz, Crystalline silica	14808-60-7	97.10007%	9.64304%
			Vinylidene chloride/methylacrylate copolymer	25039-72-6	0.00389%	0.00039%
			Acrylamide/ammonium acrylate copolymer	26100-47-0	0.10315%	0.01024%
			Isodecanol w/6-7 Moles Ethylene Oxide	26183-52-8	0.0008%	8E-05%
			Glycols, polyethylene, monotetradecyl ether	27306-79-2	5E-05%	1E-05%
			Polyethylene glycol monohexyl ether	31726-34-8	0.05691%	0.00565%
			Polyethylenimin, polymer with ethylene oxide and propylene oxide	52501-07-2	0.00021%	2E-05%
			Sorbitol Tetraoleate	61723-83-9	0.00387%	0.00038%
			Amines, dicoco alkylmethyl	61788-62-3	0.00047%	5E-05%
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00474%	0.00047%
			Amines, tallow alkyl, ethoxylated	61791-26-2	0.00015%	2E-05%
			Distillates, petroleum, hydrotreated light	64742-47-5	0.13539%	0.01345%
			Alkyl (C10-C14) alcohols, ethoxylated	66455-15-0	4E-05%	1E-05%
			Alcohols, C10-C16, ethoxylated	68002-97-1	0.00258%	0.00026%
			Phenol, 4,4'-(1-methylethylene)bis-, polymer with 2-(chloromethyl)oxirane, 2-methyloxirane and oxirane	68123-18-2	0.00017%	2E-05%
			Fatty acid, tall-oil reaction products with acetophenone	68188-40-9	0.00143%	0.00014%
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.00193%	0.00019%
Alcohols, C12-C16, ethoxylated	68551-12-2	0.00313%	0.00031%			
Alcohol, C11-14, ethoxylated	78330-21-9	4E-05%	1E-05%			
C14 alpha olefin ethoxylate	84133-50-6	0.00193%	0.00019%			
Sodium salt of Polymaleic Acid	111560-38-4	0.04645%	0.00461%			
Copolymer	125005-87-0	0.00043%	4E-05%			
Diutan gum		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: David Stewart Title: Sr. Regulatory Advisor

Date: 1/11/2017

E-mail Address: david_stewart@oxy.com

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