

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 February 15, 2012

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒Original

☐Amendment

4. Surface Hole Location:
Unit:B Lot:B Section:34 Township:17S Range:28E
Feet from:746 N/S Line:N
Feet from:2275 E/W Line:E

5. Bottom Hole Location:
Unit:B Lot:B Section:34 Township:17S Range:28E
Feet from:746 N/S Line:N
Feet from:2275 E/W Line:E

6. Latitude: Longitude:
32.7964304649748 -104.16294716955

7. County:
Eddy

8. Operator Name and Address:
OCCIDENTAL PERMIAN LTD
PO Box 4294
Houston 77210

9. OGRID: 157984

10. Phone Number: 713-366-5485

11. Last Fracture Date: 10/5/2012 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
96830

14. Gross Fractured Interval:
3,825 ft to 5,043 ft

15. True Vertical Depth (TVD):
5,223 ft

16. Total Volume of Fluid Pumped:
567,462 gals

17. 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)
Fresh Water	Operator				100%	84.75102%
HYDROCHLORIC ACID 10-30%	Halliburton	Solvent	Hydrochloric acid	7647-01-0		
100 Mesh	Halliburton				100%	0.29941%
Premium Brown 16/30 w/ Expedite LT	Halliburton				100%	12.89306%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00457%
BA-20 BUFFERING AGENT	Halliburton	Buffer	Acetic acid	64-19-7	30%	0.00434%
			Ammonium acetate	631-61-8	100%	0.01447%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00025%
CLA-WEB™	Halliburton	Additive	Ammonium salt	Confidential Business Information	50%	0.02501%
EXPEDITE 225 COMPONENT A	Halliburton	Resin	Epoxy resin	Confidential Business Information	100%	0.10068%
			Butyl glycidyl ether	2426-08-6	30%	0.0302%
			Butyl lactate	138-22-7	10%	0.01007%
EXPEDITE 225 COMPONENT B	Halliburton	Hardener	Methanol	67-56-1	60%	0.05265%
			Modified cycloaliphatic amine adduct	Mixture	60%	0.05265%
			Phosphate ester	Confidential Business Information	10%	0.00878%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.02478%
			Monoethanolamine borate	26038-87-9	100%	0.0826%
FDP-S1041-12	Halliburton	Non-ionic Surfactant			1%	0%
SCALECHEK LP-55 SCALE INHIBITOR	Halliburton	Scale Inhibitor	Polyacrylate	Confidential Business Information	60%	0.01288%
EXPEDITE 225 CLEAN-UP SOLUTION	Halliburton	Solvent	Acetic acid	64-19-7	10%	0.01364%
			Ethylene glycol monobutyl ether	111-76-2	60%	0.08183%
WG-35 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.23853%
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0%	0%
			1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-[(4-sulfophenyl)-4-[(4-sulfophenyl)azo]-, trisodium salt	1934-21-0	0%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl)azo]-, trisodium salt	915-67-3	0%	0%
			2,7-Naphthalenedisulfonic acid, 5-(acetylamino)-4-hydroxy-3-[(2-methoxyphenyl)azo]-, disodium salt	6625-46-3	0%	0%
			2-Naphthalenesulfonic acid, 6-hydroxy-5-[(4-sulfophenyl)azo]-, disodium salt	2783-94-0	0%	0%
			Amine Salts	Confidential Business Information	0%	0%
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			Calcium chloride	10043-52-4	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Ethoxylated Nonylphenol	Confidential Business Information	0%	0%
			Ethylenediamine	107-15-3	0%	0%
			FD&C Blue 1	3844-45-9	0%	0%
			Food red 10	3734-67-6	0%	0%
			Modified Bentonite	Confidential Business Information	0%	0%
			Organo Amino Silane	Confidential Business Information	0%	0%
			Oxyalkylated Phenolic Resin	Confidential Business Information	0%	0%
			Oxyalkylated Phenolic Resin	Confidential Business Information	0%	0%
			Phosphoric acid	7664-38-2	0%	0%
			Quaternary Amine	Confidential Business Information	0%	0%
			Quaternary Amine	Confidential Business Information	0%	0%
			Quaternary Amine	Confidential Business Information	0%	0%
			Quaternary Amine	Confidential Business Information	0%	0%
			Silica, amorphous - fumed	7631-86-9	0%	0%
			Siloxanes and silicones, dimethyl,	63148-52-7	0%	0%
			Sodium Chloride	7647-14-5	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Water	7732-18-5	0%	0%

18. 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: Keith Barton

Regulatory Team
Title: Leader

Date: 9/19/2013

E-mail Address: keith_barton@oxy.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.