

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

1. WELL API NO:
30-015-40721

2. Well Name:
PIGLET 21 STATE #015

3. Well Number:
015

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:K Lot:K Section:21 Township:17S Range:28E
Feet from:1710 N/S Line:S
Feet from:1536 E/W Line:W

5. Bottom Hole Location:
Unit:K Lot:K Section:21 Township:17S Range:28E
Feet from:1710 N/S Line:S
Feet from:1536 E/W Line:W

6. latitude: longitude:
32.8171644840941 -
104.184237331933

7. County:
Eddy

8. Operator Name and Address:
OXY USA WTP LIMITED PARTNERSHIP
PO Box 4294
Houston 77210

9. OGRID: 192463

10. Phone Number: 713-366-5485

11. Last Fracture Date: 1/18/2013 Frac Performed by: HALLIBURTON

12. Production Type:
O

13. Pool Code(s):
96830

14. Gross Fractured Interval:
3,515 ft to 4,691 ft

15. True Vertical Depth (TVD):
4,871 ft

16. Total Volume of Fluid Pumped:
543,612 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%	84.33085%
HYDROCHLORIC ACID 10-30%	Halliburton	Solvent	Hydrochloric acid	7647-01-0	30%	1.25147%
SSA-2	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	0.29909%
SAND - PREMIUM BROWN	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	13.28161%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.0067%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00124%
CLA-WEB™	Halliburton	Additive	Ammonium salt	Confidential Business Information	50%	0.0145%
FDP-S1041-12	Halliburton	Non-ionic Surfactant	1,2,4 Trimethylbenzene	95-63-6	1%	0.00059%
			Ethanol	64-17-5	60%	0.03521%
			Heavy aromatic petroleum naphtha	64742-94-5	30%	0.0176%
			Naphthalene	91-20-3	5%	0.00293%
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5%	0.00293%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.0014%
			Potassium metaborate	13709-94-9	60%	0.01682%
CL-22 UC	Halliburton	Crosslinker	Potassium formate	590-29-4	60%	0.06407%
SCALECHECK LP-55 SCALE INHIBITOR	Halliburton	Scale Inhibitor	Polyacrylate	Confidential Business Information	60%	0.01898%
EXPEDITE 225 COMPONENT A	Halliburton	Resin	Epoxy resin	Confidential Business Information	100%	0.10686%
			Butyl glycidyl ether	2426-08-6	30%	0.03206%
			Butyl lactate	138-22-7	10%	0.01069%
EXPEDITE 225 COMPONENT B	Halliburton	Hardener	Methanol	67-56-1	60%	0.05565%
			Modified cycloaliphatic amine adduct	Confidential Business Information	60%	0.05565%
			Phosphate ester	Confidential Business Information	10%	0.00927%
EXPEDITE 225 CLEAN-UP SOLUTION	Halliburton	Solvent	Acetic acid	64-19-7	10%	0.00954%
			Ethylene glycol monobutyl ether	111-76-2	60%	0.05721%
LCA-1	Halliburton	Solvent	Paraffinic solvent	Confidential Business Information	100%	0.04006%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.20973%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00186%
			Crystalline silica, quartz	14808-60-7	30%	0.00056%
BE-6 MICROBIOCID	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.00056%
K-34	Halliburton	Buffer	Sodium bicarbonate	144-55-8	100%	0.00093%
Ingredients Listed Below This Line Are Part of the			1H-Pyrazole-3-carboxylic acid, 4,5-dihydro-5-oxo-1-[(4-sulfohenyl)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-sulfohenyl)azo]-, disodium salt	2783-94-0	0%	0%
			Acrylate Polymer	Confidential Business Information	0%	0%
			Amine Salts	Confidential Business Information	0%	0%
			Amine Salts	Confidential Business Information	0%	0%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			Borate salts	Confidential Business Information	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured Acrylic Resin	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%
			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 gel	112926-00-8	0%	0%
			Siloxanes and silicones, dimethyl	63148-52-7	0%	0%
			Sodium carboxymethyl cellulose	9004-32-4	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium glycollate	2836-32-0	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Surfactant Mixture	Confidential Business Information	0%	0%
			Surfactant Mixture	Confidential Business Information	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

Date: 10/2/2013 Title: Leader

E-mail Address: keith_barton@oxy.com

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