

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

1. WELL API NO: 30-015-39831
2. Well Name: STERLING SILVER 33 FEDERAL #001H
3. Well Number: 001H
4. Surface Hole Location: Unit:P Lot:P Section:33 Township:23S Range:31E Feet from:360 N/S Line:S Feet from:590 E/W Line:E
5. Bottom Hole Location: Unit:P Lot:P Section:33 Township:23S Range:31E Feet from:360 N/S Line:S Feet from:590 E/W Line:E
6. latitude: longitude: 32.2546394562972 - 103.776109330322
7. County: Eddy

HYDRAULIC FRACTURING FLUID DISCLOSURE

Original

Amendment

8. Operator Name and Address: OXY USA INC PO Box 4294 Houston 77210	9. OGRID: 16696	10. Phone Number: 713-366-5485
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11. Last Fracture Date: 7/9/2012 Frac Performed by: HALLIBURTON	12. Production Type: O
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13. Pool Code(s): 33740	14. Gross Fractured Interval: 9,200 ft to 13,680 ft
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15. True Vertical Depth (TVD): 9,992 ft	16. Total Volume of Fluid Pumped: 1,550,454 gals
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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%	87.59155%
HYDROCHLORIC ACID 5-10%	Halliburton	Solvent	Hydrochloric acid	7647-01-0	10%	1.27471%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	10.41812%
			Hexamethylenetetramine	100-97-0	2%	0.20836%
			Phenol / formaldehyde resin	9003-35-4	5%	0.52091%
CL-31 CROSSLINKER	Halliburton	Crosslinker	Potassium hydroxide	1310-58-3	5%	0.0016%
			Potassium metaborate	13709-94-9	60%	0.01916%
BC-200 UC	Halliburton	Crosslinker	Modified Alkane	Confidential Business Information	60%	0.06613%
GasPerm 1100	Halliburton	Non-ionic Surfactant	Ethanol	64-17-5	60%	0.04337%
			Methanol	67-56-1	10%	0.00723%
			Terpenes and Terpenoids, sweet orange-oil	68647-72-3	5%	0.00361%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.0057%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.08843%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.08843%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.01052%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00611%
HPH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00056%
SCALECHECK LP-55	Halliburton	Scale Inhibitor	Polyacrylate	Confidential Business Information	60%	0.02505%
SCALE INHIBITOR						
LCA-1	Halliburton	Solvent	Paraffinic solvent	Confidential Business Information	100%	0.01462%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.00078%
			Silica, amorphous precipitated	67762-90-7	30%	0.00023%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.19275%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00373%
OPTIFLO-III DELAYED RELEASE BREAKER	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00339%
			Crystalline silica, quartz	14808-60-7	30%	0.00102%
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfur-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-Ethyl hexanol	104-76-7	0%	0%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			Borate salts	Confidential Business Information	0%	0%
			Butyl alcohol	71-36-3	0%	0%
			Calcium chloride	10043-52-4	0%	0%
			Crystalline silica, quartz	14808-60-7	0%	0%
			Cured Acrylic Resin	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Ethoxylated Fatty Acid	Confidential Business Information	0%	0%
			Ethoxylated Fatty Acid	Confidential Business Information	0%	0%
			Ethoxylated Fatty Acid	Confidential Business Information	0%	0%
			Food red 10	3734-67-6	0%	0%
			Methanol	67-56-1	0%	0%
			Methyl Isobutyl Ketone	108-10-1	0%	0%
			Modified bentonite	Confidential Business Information	0%	0%
			Organic salt	Confidential Business Information	0%	0%
			Polypropylene glycol	25322-69-4	0%	0%
			Propylene carbonate	108-32-7	0%	0%
			Propylene glycol	57-55-6	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium carbonate	497-19-8	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Surfactant Mixture	Confidential Business Information	0%	0%
			Surfactant Mixture	Confidential Business Information	0%	0%
			Terpenes and Terpenoids	Confidential Business Information	0%	0%
			Trimethylamine, N-oxide	1184-78-7	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: 10/2/2013

E-mail Address: keith_barton@oxy.com

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