State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505  HYDRAULIC FRACTURING FLUID DISCLOSURE  ☑ Original ☐ Amendment						Revised November 6, 2013  1. WELL API NO.	
						Feet from:322   N/     Feet from:2085   E/     5. Bottom Hole Location:     Unit:N Lot:N Section:23   To     Feet from:365   N/     Feet from:1991   E/	ownship:25S Range:29E IS Line:N W Line:W ownship:25S Range:29E IS Line:S W Line:W ongitude: -103.957016
13. Pool Code(s):	е	ed by: Halliburton			9. OGRID:  12. Production 7  0  14. Gross Fract	217955 10. Phone Numbe	432-685-4372
96217 15. True Vertical Depth (TVD): 7,846 ft 17. Total Volume of Re-Use Wat	as Dunnard				16. Total Volum 6,63	77 ft to 12,095 ft e of Fluid Pumped: 38,339 gals Re-Use Water in Fluid Pumped:	
N/A  19. HYDRAULIC FLUID  Trade Name	COMPOSITION	N AND CONCEN	TRATION:	1C86#)		Disclosed	Maximum Ingredient
Fresh Water	Supplier Operator	Base Fluid	Fresh Water	7732-1	#	Concentration in Additive (% by mass)	y Concentration in HF Fluid (% by mass)
FE ACID - <10% HCL SSA-2 SAND - PREMIUM WHITE	Halliburton Halliburton	Acid Proppant Proppant	Hydrochloric acid Crystalline silica, quartz Crystalline silica, quartz	7647-0 14808-4 14808-4	1-0 60-7	10% 100% 100%	0.12243% 2.55817%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confide Informa	ential Business ation	5%	0.00254%
			Glycerine Poly(oxy-1,2-ethanediyl), .alphaisodecylomegahydroxy-	56-81-5 61827-		10% 30%	
BE-9 Cla-Web™	Halliburton Halliburton	Biocide Additive	Tributyl tetradecyl phosphonium chloride  Ammonium salt	81741-2	28-8 ential Business	10%	
HpH BREAKER	Halliburton	Breaker	Sodium chloride	Informa 7647-1	ation 4-5	30%	0.00024%
CLA-STA XP ADDITIVE HAI-OS ACID INHIBITOR	Halliburton Halliburton	Clay Stabilizer  Corrosion Inhibitor	Polyepichlorohydrin, trimethyl amine quaternized Methanol	51838-		60%	10/4/10
3rd Party Scale Inhibitor BE-6 MICROBIOCIDE	Operator Halliburton		Propargyl alcohol *Supplied by Operator 2-Bromo-2-nitro-1,3-propanediol	107-19-	-7	10% 100% 100%	0.00021% 0.02385%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz Walnut hulls	14808-6 Mixture	60-7	30% 100%	0.00181% 0.00603%
WG-36 GELLING AGENT 3rd Party Additive 3rd Party Scale Inhibitor	Halliburton Operator Operator	Gelling Agent *3rd Party Additive *3rd Party Additive		9000-3	U-0	100% 100% 100%	0.01196%
Ingredients Listed Below This Line Are Part of the		Mity Adultive	1,2-Benzisothiazolin-3-one Acetic acid	2634-3	7	0% 0%	6 0% 6 0%
			Acetic anhydride Alcohols, C14-C15, ethoxylated Alkane	108-24- 68951- Confide		0% 0% 0%	0%
			Amine salts	Informa	ation ential Business	0%	
			Amine salts	Confide Informa	ential Business ation	0%	
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888	-68-4	0%	0%
			C.I. Pigment Red 5 Calcium chloride	6410-4 10043-	52-4	0% 0%	0%
			Citric acid Crystalline Silica, Quartz Cured acrylic resin	77-92-9 14808-0 Confide		0% 0% 0%	0%
			Cured acrylic resin	Informa Confide Informa	ential Business	0%	6 0%
			Enzyme	Confide Informa	ential Business ation		3000
			Enzyme  Ethylenediaminetetraacetic acid,	Confide Informa 64-02-8		0%	
			tetrasodium salt Fatty acids, tall oil	120	ential Business	F00933	
			Hydrogen peroxide Nitrotriacetic acid, trisodium salt	7722-8- 5064-3	4-1	0% 0%	
			monohydrate Olefins	Confide	ential Business	0%	0%
			Olefins Olefins	Informa	ential Business ation ential Business	0%	
			Olefins	Informa Confide	tion ential Business	0%	
			Quaternary amine	Informa Confide Informa	ential Business	0%	6 0%
			Quaternary amine	Confide Informa	ential Business	0%	100
			Quaternary amine  Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	Informa 68527-	ation 49-1	0%	6 0%
			Silica gel Sodium bicarbonate Sodium chloride	112926 144-55- 7647-1	-8	0% 0% 0%	0%
			Sodium glycollate Sodium hydroxide	2836-3 1310-7	2-0 3-2	0% 0%	6 0% 6 0%
			Surfactant mixture Surfactant mixture	Informa	ential Business ation ential Business	0%	832
			Trimethylamine, N-oxide	Informa 1184-7	ation 8-7	0%	6 0%
2. L.C. 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	that the information sho Electronically	own on this disclosure for Printed Name: Storm	Water m is true and complete to the best of my kn in Davis	7732-18 lowledge a		Senior Regulatory	6 0%