Submit within 45 days of well of	ompletion	Stat	te of New Mexic	:0		·	· ·	Revised November 6, 2013										
Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505						WELL API NO.     30-015-43219     Well Name:     HAWK 8E FEDERAL #048     Well Number:     048												
									HYDRAULIC FRACTURING FLUID DISCLOSURE  × Original							4. Surface Hole Location: Unit:D Lot:D Section:8 Township:18S Range:27E Feet from:1165 N/S Line:N Feet from:230 E/W Line:W  5. Bottom Hole Location: Unit:D Lot:D Section:8 Township:18S Range:27E		
									□ Amendment						Feet from: 1165 N/S Line: N Feet from: 230 E/W Line: W 6. latitude: longitude: 32.76634757 -104.308387			
						7. County: Eddy												
8. Operator Name and Address: LIME ROCK RESI 1111 Bagby Stree Suite 4600 Houston 77002	OURCES II-A, L.P. t				9. OGRID:	277558	10. Phone Number	er: 713-292-9517										
11. Last Fracture Date: 10/14/2015 Frac Performed by: ELITE						12. Production Type:												
13. Pool Code(s):						14. Gross Fractured Interval:												
51120 15. True Vertical Depth (TVD):						2,740 ft to 4,696 ft B. Total Volume of Fluid Pumped:												
4,697 ft 17. Total Volume of Re-Use Water Pumped:						1,459,418 gals 3. Percent of Re-Use Water in Fluid Pumped:												
1,459,418 gals					10. Percent of		are i uniped.											
19. HYDRAULIC FLUID				1000 W OL		T. 10	- di d	Tu										
Trade Name	Supplier	Purpose	Ingredients	Service #	mical Abstract		in Additive (% by	Maximum Ingredient Concentration in HF Fluid (%										
Water	Customer	Carrier/Base Fluid	Water	7732-18-5		mass)	100%	by mass) 89.142399										
Sand (Proppant)		Proppant	Silica Substrate	14808-60-7			100%	10.338359										
RCS (Proppant) Hydrochloric Acid (15%)	Momentive CNR	Proppant Acidizing	Silica Substrate Hydrochloric Acid	14808-60-7 7647-01-0			100% 38.8%	0.153629										
4-N-1 Plus	Chemplex	Iron Control.Corr	Acetic Acid	64-19-7		4	80%	0.002399										
		Inhib,Surfactant	Methanol	67-56-1			10%	0.00039										
Plexcide 24L Plexset 730	Chemplex	Biocide	Tetrahydro-3, Dimethyl-2H	533-74-4 84133-50-6		-	24% 50%	0.00599										
Plexset 730	Chemplex	Activator	Secondary Alcohol Ethoxylate	84133-50-6	9		50%	0										
Plexsurf 240 E	Chemplex	Surfactant	Methyl Alcohol	67-56-1		1	10%	09										
Plexslick 953	Chemplex	Friction Reducer	Alcohol Alkoxylate Alcohol Ethoxylate	Proprietary Proprietary 64742-47-8		1	50% 8%	0.00559										
			Surfactants Hydrotreated Petroleum Distillate				30%	0.020619										
			Polyacrylamide-co-Acrytic Acid	9003-06-9			31%	0.02139										
Plexgel 907 LE	Chemplex	Polymer	Guar Gum Mineral Oil Bentonite Clay	9000-30-0 64742-47-0 14808-60-1	7	50% 55% 2%		09										
Plexbor 101	Chemplex	Crosslinker	Surfactant Ethylene Glycol	68439-51-0 107-21-1	)	+	2% 9.99%											
		400000000000000000000000000000000000000	Potssium Metaborate	13709-94-9	9		30%	09										
	Chompley	Gol Proples	Potassium Hydroxide	1310-58-3 Proprietar		2	5% 2%											
Plexgel Breaker 10L	Chemplex	Gel Breaker	Mannanase Enzymes Sodium Chloride	Proprietary 7647-14-5		1	15%											
Sodium Persulfate	Chemplex	Gel Breaker	Sodium Persulfate	7775-27-1		98%		00										
Buffer 11	Chemplex	PH Control	Potassium Hydroxide	1310-58-3		23%												
Greenhib 679	Chemplex	Scale Inhibitor	Glycerine Proprietary	56-81-5 Proprietary	,		35% 35%											
grand and the second	december 25	A STATE OF THE STA	Water	7732-18-5			30%	0.008119										
Clayplex 650	Chemplex	Clay Stabilizer	Water Ethanaminium, 2-hydroxy-N,N,N-trimethyl- chloride	7732-18-5 67-48-1		60% 35%												
Plexcide 15G	Chemplex, LC	Biocide	Glutaraldehyde Didecyl dimethyl ammonium chloride	111-30-8 7173-51-5			14% 3%	0'										
			Alkyl dimethyl benzyl ammonium chloride Ethanol	68424-85- 64-17-5	1		3% 3%											
Payzone845BCD-W	Catalyst	Biocide	Didecyl dimethyl	7173-51-5			50%											
	160		ammonium chloride Ethyl Alcohol	64-17-5			10%	0,										
		*	Methyl Alcohol	67-56-1			40%	0'										
Payzone217SI	Catalyst	Scale Inhibitor	Phosphonate	Proprietary			15%	09										
College Colleg	that the information show Electronically	Printed Name: Mike Pi	s true and complete to the best of mo opin	iy knowledge s	no bellef.	Title: Consultan	t											