

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. 30-015-39761					
		2. Well Name: IRON DUKE #002H					
		3. Well Number: 002H					
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:I Lot:I Section:9 Township:18S Range:26E Feet from:2310 N/S Line:S Feet from:330 E/W Line:E					
		5. Bottom Hole Location: Unit:I Lot:I Section:9 Township:18S Range:26E Feet from:2310 N/S Line:S Feet from:330 E/W Line:E					
		6. Latitude: Longitude: 32.7615032424076 - 104.379303352381					
		7. County: Eddy					
8. Operator Name and Address: NADEL AND GUSSMAN HEYCO, LLC PO BOX 1933 ROSWELL 88202				9. OGRID: 258462		10. Phone Number: 575-623-6601	
11. Last Fracture Date: 2/13/2013 Frac Performed by: GO Frac, LLC				12. Production Type: O			
13. Pool Code(s): 3250				14. Gross Fractured Interval: 3,024 ft to 6,893 ft			
15. True Vertical Depth (TVD): 6,975 ft				16. Total Volume of Fluid Pumped: 49,447 bbls			
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)	
Freshwater	HEYCO		Water	7732-18-5	100%	75.53917%	
Hydrochloric Acid 10.1 - 15.0%	Reagnet Chemicals		Hydrchloric Acid	7647-01-0	15%	0.1551%	
100 Mesh Sand	Santrol		Sand		100%	1.56209%	
20/40 White Sand	Santrol		Sand		100%	12.92621%	
ICA-955	Chemplex, LLC		Citric Acid	77-92-9	60%	0.00251%	
			Acetic Acid	64-19-7	40%	0.00167%	
Plexaid 673	Chemplex, LLC		Methyl Alcohol	67-56-1	25%	0.00374%	
			Sodium Salt of Phosphonodimethylated Diamine	Trade Secret	5%	0.00075%	
			Water	7732-18-5	85%	0.01272%	
Plexbor 101	Chemplex, LLC		Ethylene Glycol	107-21-1	10%	0.0033%	
			Potassium Hydroxide	1310-58-3	5%	0.00165%	
			Potssium Metaborate	13709-94-9	30%	0.0099%	
			Water	7732-18-5	75%	0.02475%	
Plexbreak 145	Chemplex, LLC		Cocamide	68603-42-9	10%	0.009%	
			Diethanolamine Salt				
			Diethanolamine	111-42-2	5%	0.0045%	
			Ethylene Glycol	111-76-2	15%	0.0135%	
			Monobutyl Ether				
			Methyl Alcohol	67-56-1	15%	0.0135%	
			Water	7732-18-5	66%	0.05941%	
Plexicide P-5	Chemplex, LLC		Methyl Alcohol	67-56-1	20%	0.00366%	
			Tributyl tetradecyl phosphonium chloride	81741-28-8	5%	0.00091%	
			Water	77325-18-5	75%	0.01372%	
Claymax	Chemplex, LLC		Choline Chloride	67-48-1	62%	0.04959%	
Sodium Persulfate	Chemplex, LLC		Sodium Persulfate	7775-27-1	100%	0.01025%	
Plexhib 256	Chemplex, LLC		Alcohol Ethoxylate	Trade Secret	30%	0.00074%	
			Surfactants				
			Methyl Alcohol	67-56-1	70%	0.00173%	
			n-olefins	Trade Secret	10%	0.00025%	
			Propargyl Alcohol	107-19-7	8%	0.0002%	
			thiourea-formaldehyde copolymer	68527-49-1	30%	0.00074%	
Plexgel Breaker 10L	Chemplex, LLC		Mannanase Enzymes	Trade Secret	2%	0.00014%	
			Sodium Chloride	7647-14-5	15%	0.00108%	
			Water	7732-18-5	90%	0.00648%	
Plexaid 412	Chemplex, LLC		Methyl Alcohol	67-56-1	16%	0.012%	
			Triethanolamine	102-71-6	54%	0.04052%	
			Water	7732-18-5	3%	0.00225%	
LGR-01	Chemplex, LLC		Solvent naptha, heavy aliphatic	64742-96-7	55%	4.86215%	
			Guar Powder	9000-30-0	45%	3.97812%	
			Mixture of Organophilic Clay	68953-58-2, 68911-87-5, 14808-60-	3%	0.26521%	
			Sorbitan sesquioleate	8007-43-0	4%	0.35361%	
			Ethoxylated Alcohol	78330-21-9	2%	0.17681%	
Beta M4.0	pP		Distillate, petroleum, hydrotreated light	64742-47-8	50%	0.07674%	
			C-11 to C-14 n-alkanes, mixed	1120-21-4, 112-40-3, 629-50-5, 629-59-4, 67-56-1	50%	0.07674%	
			Organophylic Clay	68593-58-2	2%	0.00307%	
			Crystalline Silica	14808-60-7	0%	3E-05%	
			Guar Gum	9000-30-0	48%	0.07367%	
			Alcohol Ethoxylate	Trade Secret	1%	0.00153%	
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: Tammy Link		Title: _____	
Date:		2/15/2013					
E-mail Address:		tlink@heycoenergy.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.							