4/25/2017

Submit within 45 days of	Fwell	01.1					F	Revised November 6, 2013
completion		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division				1. WELL API NO. 30-025-42820 2. Well Name: PAN HEAD FEE #024H		
		1220 S.	s Dr.	-	3. Well Number:			
		024H						
HYDRAULI DISCLOSU	)			4. Surface Hole Location: Unit:N Lot:N Section:2 Township:17S Range:32E Feet from:85 N/S Line:S Feet from:2180 E/W Line:W				
⋈ Original						5. Bottom Hole L	ocation:	
☐ Amendment	t			Unit:N Lot:N Section:2 Township:17S Range:32E Feet from:85 N/S Line:S Feet from:2180 E/W Line:W 6. latitude: longitude:				
			32.85656312 -103.7385961					
						7. County: Lea		
	1				To conin		T	400
Operator Name and Address:     COG OPERATING LLC					9. OGRID	10. Phone Number: 432 229137 685-4332		
11. Last Fracture Date:	np Co Services		12. Production Type: O					
13. Pool Code(s): 44500					14. Gross	Fractured Interva 7,025 ft to 12,		
15. True Vertical Depth (T 6,550 ft				Volume of Fluid Pumped: 11,534,460 gals				
17. Total Volume of Re-Us 0 gals	se Water Pumpeo	d:			18. Perce	nt of Re-Use Wate	er in Fluid Pu	mped:
19. HYDRAULIC F	LUID COMF	POSITION AND C	ONCENTRAT	ON:	1			
Trade Name	Supplier	Purpose	Ingredients	(CAS #) Chemical Abstract Service #		Maximum Ingr Concentration (% by mass)		Maximum Ingredient Concentration in HF Fluid (% by mass)
Water	Operator	Carrier/Base Fluid	Water	7732-18-5			100%	88.28908%
Sand	TSS	Proppant	Silica Substrate				100%	10.41889%
15% HCL	Reagent	Acidizing	Hydrochloric Acid	7647-01-0	)		15%	0.17484%
Chemplex 4-N-1	Chemplex	Combination/Iron Control		104-76-7			10%	0.00133%
			Acetic Acid Alcohol Ethoxylate Surfactants	64-19-7 Proprietary			85% 2%	0.01133% 0.00027%
			Cocamide Diethanolamine Salt	68603-42-9			2%	0.00027%
			Diethanolamine				2%	0.00027%
			Methyl Alcohol n-olefins	67-56-1 Proprietary		-	10%	0.00133% 0.00013%
		P		107-19-7			1%	0.00013%
			Alcohol					
			thiourea- formaldehyde copolymer	68527-49-1			2%	0.00027%
Plexgel Breaker XPA	Chemplex	Breaker	Hydrogen Peroxide	7722-84-1			7%	0.00168%
Plexslick 957	Chemplex	Friction Reducer	Ammonium Chloride	12125-02-9			5%	0.0023%
			Nonionic Surfactants	Proprietary			1.5%	0.00069%
			Paraffinic, Naphtehenic Solvent	64742-47	-8		30%	0.01383%

Hydraulic Fractu	ring Fluid Disc	losure				Page 2 of 2
			Poly (acrylamide-co- acrylic acid), partial sodium salt	62649-23-4	35%	0.01613%
Plexsurf 240E	Chemplex	Non Ionic	Methyl Alcohol	67-56-1	20%	0.0086%
		Surfactant	Alcohol	Proprietary	20%	0.0086%
			Alkoxylate			
20. I, as Operator, here	by certify that the info	rmation shown on this	disclosure form is true	and complete to the best	of my knowledge and belief.	
Signature:		Printed N	ame:		Title:	
Date:						
E-mail Address:						

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.