

Submit within 45 days of well completion	<div>State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505</div>	Revised November 6, 2013				
		1. WELL API NO: 30-015-42875				
		2. Well Name: CHALK FEDERAL #007				
		3. Well Number: 007				
<div>HYDRAULIC FRACTURING FLUID DISCLOSURE</div> <div><input checked="" type="checkbox"/> Original</div> <div><input type="checkbox"/> Amendment</div>		4. Surface Hole Location: Unit:K Lot:K Section:5 Township:18S Range:27E Feet from:1650 N/S Line:S Feet from:1650 E/W Line:W				
		5. Bottom Hole Location: Unit:K Lot:K Section:5 Township:18S Range:27E Feet from:1650 N/S Line:S Feet from:1650 E/W Line:W				
		6. latitude: 32.7740463234264 longitude: -104.30365510096				
		7. County: Eddy				
8. Operator Name and Address: VANGUARD OPERATING, LLC 5847 San Felipe, Suite 3000 Houston 77057		9. OGRID: 258350	10. Phone Number: 832-327-2252			
11. Last Fracture Date: 8/18/2015 Frac Performed by: PRODUCER SERVICE		12. Production Type: O				
13. Pool Code(s): 51120		14. Gross Fractured Interval: 2,840 ft to 4,010 ft				
15. True Vertical Depth (TVD): 4,100 ft		16. Total Volume of Fluid Pumped: 1,028,916 gals				
17. Total Volume of Re-Use Water Pumped: 1,028,916 gals		18. Percent of Re-Use Water in Fluid Pumped: 100%				
19. 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)
SAND	PSC	PROPPANT	SILICON DIOXIDE	14808-60-7	100%	9.16108%
15% HYDROCHLORIC ACID	PSC	ACIDIZING	HYDROCHLORIC ACID	7647-01-0	10%	0.03787%
PRO BIO 5000	PSC	BIOCIDE	2,2-DIBROMO-3-NITRILOPROPIONAMIDE	10222-01-2	5%	0.00226%
PRO FRA 407	PSC	FRICITION REDUCER	PETROLEUM DISTILATES	64742-47-8	40%	0.0469%
			POLYACRYLAMIDE	TRADE SECRET	30%	0.01102%
			SODIUM CHLORIDE	7647-14-5	5%	0.00184%
			AMMONIUM CHLORIDE	12125-02-9	5%	0.00184%
			ETHOXYLATE ALCOHOL	TRADE SECRET	5%	0.00184%
			TALL OIL	TRADED SECRET	2%	0.00073%
			TRADE SECRET	TRADE SECRET	1%	0.00037%
PRO SCALE 125	PSC	SCALE INHIBITOR	PHOSPHONATED COMPOUND	TRADE SECRET	15%	0.00656%
			AMMONIUM CHLORIDE	12125-02-9	2.5%	0.00109%
20. 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: Mike Pippin		Consultant Petroleum		
Date: 12/2/2015				Title: Engineer		
E-mail Address: mike@pippinllc.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.