

Hydraulic Fracturing Fluid Product Component Information Disclosure									
Fracture Date State: County: API Number: Operator Name: Well Name and Number: Longitude: Latitude: Long/Lat Projection: Production Type: True Vertical Depth (TVD): Total Water Volume (gal):*	6/3/2015	New Mexico	Lea	30-025-40274	Apache Corporation	WBDU #124	-103.1803847	32.48662417	NAD27
Hydraulic Fracturing Fluid Composition:									
Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments		
Water		Carrier / Base Fluid		7732-18-5	100.00%	79.20708%			
Sand		Proppant	Silicon Dioxide	14808-60-7	100.00%	10.56855%			
Super DC/LC TLC/TF Sandtrol		Proppant	Silicon Dioxide	14808-60-7	97.00%	5.85444%			
			P/F Novolak Resin	9003-35-4	5.00000%	0.30178%			
			Hexamethylenetetramine	1009-7-0	1.00000%	0.06036%			
B-15	Brenntag	Biocide	Tetrakis (hydroxymethyl) phosphonium	55566-30-8	20.00000%	0.00315%			
			Water	7732-18-5	80.00%	0.01259%			
15% Hydrochloric Acid		Scale Dissolver	37% Hydrochloric Acid	7647-01-0	15.00000%	0.50601%			
			Water	7732-18-5	85.00%	2.86737%			
I-112	Chemplex, L.C.	Acid Corrosion Inhibitor	Methanol	67-56-1	49.60000%	0.00130%			
			Propargyl Alcohol	107-19-7	4.00000%	0.00010%			
SG-15G	Multiple Suppl	Polymer	Guar Gum	9000-30-0	50.00000%	0.26221%			
			Petroleum Distillate(Mineral Oil)	64742-47-8	55.00000%	0.28843%			
			Bentonite Clay	14808-60-7	2.00000%	0.01049%			
			Surfactant	68439-51-0	2.00000%	0.01049%			
XL-335	Multiple Suppl	Crosslinker	Sodium Metaborate	7775-19-1	40.00000%	0.03640%			
			Glycerol	56-81-5	45.00000%	0.04095%			
GB-2	Multiple Suppl	Breaker	Ammonium Persulfate	7727-54-0	99.90%	0.00249%			
GB-150	Chemplex, L.C.	Breaker	Non-hazardous ingredients	NA	100.00%	0.03590%			
NE-227	Multiple Suppl	Non-emulsifier	Isopropanol	67-63-0	15.00000%	0.00595%			
			Methanol	67-56-1	15.00000%	0.00595%			
			Ethoxylated Nonylphenol	9016-45-9	20.00000%	0.00793%			
FE-4	Multiple Suppl	Iron Control Additive	Citric Acid Anhydrous	77-92-9	55.00000%	0.01021%			
			Water	7732-18-5	55.00000%	0.01021%			
Superset W	Santrol	Resin Activator	Methanol	67-56-1	50.00000%	0.04255%			
			Poly(oxyethylene)nonyphenol ether	9016-45-9	54.00000%	0.04596%			

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
* Total Water Volume sources may include fresh water, produced water, and/or recycled water ** Information is based on the maximum potential for concentration and thus the total may be over 100%							
All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.							

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 November 5, 2013 1. Well ID No: 30-025-40274 2. Well Name: WEST BLINERY DRINKARD UNIT #124 3. Well Number: 124				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location Unit P Lot P Section 6 Township 21S Range 37E Feet from 170 N15 Line S Feet from 1160 E1W Line E 5. Bottom Hole Location Unit P Lot P Section 6 Township 21S Range 37E Feet from 170 N15 Line S Feet from 1160 E1W Line E 6. Wellbore 32.4866333 Length -103.1803665 7. County LBB				
8. Operator Name and Address: APACHE CORP 303 Veterans Airport Lane Suite 3000 Midland, TX 79706		9. OGRN: 873 10. Phone Number: 432-519-1062				
11. Last Fracture Date: 6/5/2015 Frac Performed by: CUD		12. Production Type: ☐ Oil				
13. Frac Depth: 22900		14. Gross Fracture Interval: 5,667 ft to 5,890 ft				
15. True Vertical Depth (TVD): 7,300 ft		16. Total Volume of Fluid Pumped: 120,194 gals				
17. Total Volume of Reverse Water Pumped: N/A		18. Percent of Reverse Water in Fluid Pumped: Not Disclosed				
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)
Water		Carrier / Base Fluid		7732-18-5	100%	76.20708%
Sand		Proppant	Silicon Dioxide	14806-60-7	100%	10.96555%
Super DCILC YLC/THS Opt RCB	Sandrol	Proppant	Silicon Dioxide	14806-60-7	9%	9.35444%
			PVF Novolac Resin	9605-35-4	1%	0.30179%
			Hexamethylphosphoramide	1003-7-0	1%	0.00030%
B-15	Brenntag	Biocide	Telluric (hydroxymethyl) phosphonum sulfate	55566-30-8	20%	0.00315%
15% Hydrochloric Acid	Reagent	Scale Dissolver	Water	7732-18-5	80%	0.01259%
			37% Hydrochloric Acid	7647-01-0	15%	0.00639%
I-112	Chemplex, L.C.	Acid Corrosion Inhibitor	Water	7732-18-5	85%	2.88737%
			Methanol	67-58-1	49.8%	0.0013%
			Propylene Glycol	107-18-7	4%	0.00076%
SG-153	Multiple Suppliers	Polymer	Quar Gum	9000-90-0	50%	0.26321%
			Petroleum Distillate (Mineral Oil)	64742-47-8	58%	0.28643%
XL-338	Multiple Suppliers	Crosslinker	Bentonite Clay	14895-60-7	2%	0.01040%
			Sulfuric Acid	68259-51-0	1%	0.01049%
GB-2	Multiple Suppliers	Breaker	Sodium Metaborate	7775-19-1	40%	0.0364%
GB-150	Chemplex, L.C.	Breaker	Glycerol	56-81-5	48%	0.04699%
			Ammonium Peroxodisulfate	7727-54-0	99.6%	0.00249%
NE-227	Multiple Suppliers	Non-entangler	Non-hazardous ingredients	NA	100%	0.0359%
			Isopropanol	67-63-0	16%	0.00596%
			Methanol	67-58-1	16%	0.00596%
FE-4	Multiple Suppliers	Iron Control Additive	Ethoxylated Nonylphenol	9016-45-9	20%	0.00793%
			Citric Acid Anhydrous	7746-9	95%	0.01021%
			Water	7732-18-5	55%	0.01021%
Supersol W	Sandrol	Resin Activator	Methanol	67-58-1	50%	0.04235%
			Poly(vinylpyrrolidone)	9012-45-9	54%	0.04235%
20. I, as Operator, hereby certify that the information shown on this disclosure form is true and correct to the best of my knowledge and belief. Signature: <u>Signed Electronically</u> Printed Name: <u>Reessa R. Holland</u> 21. Staff Regulatory Date: <u>7/14/2015</u> Title: <u>Analyst</u> E-mail Address: <u>reessa.fisher@apachecorp.com</u>						

NAOCD does not require the reporting of information beyond USGS data as described in 25 CFR 18.12 (2013). NAOCD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.