

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 6, 2013		
1. WELL API NO: 30-025-41227						
2. Well Name: JACKSON UNIT #012H						
3. Well Number: 012H						
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit: A Lot: A Section: 16 Township: 24S Range: 33E Feet from: 200 N/S Line: N Feet from: 960 E/W Line: E				
		5. Bottom Hole Location: Unit: P Lot: 16 Section: 16 Township: 24S Range: 33E Feet from: 331 N/S Line: S Feet from: 882 E/W Line: E				
		6. Latitude: 32.2243539641672 Longitude: -103.57182482937				
		7. County: Lea				
8. Operator Name and Address: MURCHISON OIL & GAS INC 1100 Mira Vista Blvd. Plano 75093		9. OGRID: 15363		10. Phone Number: 972-931-0700		
11. Last Fracture Date: 10/22/2013 Frac Performed by: Baker Hughes		12. Production Type: O				
13. Pool Code(s): 96674		14. Gross Fractured Interval: Confidential				
15. True Vertical Depth (TVD): 11,220 ft		16. Total Volume of Fluid Pumped: 3,367,253 gals				
17. Total Volume of Re-Use Water Pumped: N/A		18. Percent of Re-Use 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	Operator	Carrier	Water	7732-18-5	100%	84.24447%
HCl, 7.6 - 10%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	10%	0.23207%
			Water	7732-18-5	90%	2.08862%
Superset-U, tote	Baker Hughes	Activator	Denatured Ethanol	64-17-5	45%	0.03328%
			Di (Ethylene Glycol) Ethyl Ether Acetate	112-15-2	55%	0.04067%
Alpha 125	Baker Hughes	Biocide	Water	7732-18-5	75%	0.01062%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.0057%
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.0033%
BF-9L, 55 gal drum	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.06304%
			Potassium Hydroxide	1310-58-3	30%	0.03152%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.066%
			Water	7732-18-5	30%	0.0264%
Clay Master-5C	Baker Hughes	Clay Control	Oxyakylated Amine Quat	138879-94-4	60%	0.02988%
CI-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00055%
			Methanol	67-56-1	60%	0.0011%
			Olefin	Trade Secret	5%	9E-05%
			Polyoxyalkylenes	Trade Secret	30%	0.00055%
			Propargyl Alcohol	107-19-7	10%	0.00018%
			Thiourea Polymer	68527-49-1	30%	0.00055%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.02754%
			Sodium Hydroxide	1310-73-2	10%	0.00918%
			Sodium Tetraborate Decahydrate	1303-96-4	30%	0.02754%
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	Oxyalkylated Alcohol	Trade Secret	5%	0.0004%
			Petroleum Distillates	64742-47-8	30%	0.00243%
			Polyacrylate	Trade Secret	60%	0.00486%
			Sodium Chloride	7647-14-5	3%	0.00024%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.30009%
			Petroleum Distillate Blend (1)	64742-47-8	70%	0.3501%
			Petroleum Distillate Blend (3)	8042-47-5	70%	0.3501%
			Petroluerm Distillate Blend (2)	64742-55-8	70%	0.3501%
GW-4	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	100%	0.00039%
AG-12	Baker Hughes	Gelling Agent	Acrylic Polymers	26006-22-4	50%	0.00091%
			Distillates, Petroleum, Hydrotreated Middle	64742-47-8	21.1%	0.00038%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Mixture of Surfactants	Trade Secret	50%	0.03856%
			Propylene Glycol	57-55-6	30%	0.02314%
Parasorb 5000, bag	Baker Hughes	Paraffin Inhibitor	Calcined Diatomaceous Earth	91053-39-3	65%	0.01551%
			Proprietary Paraffin Inhibitor	Trade Secret	25%	0.00596%
			Silica, Crystalline-Quartz	14808-60-7	5%	0.00119%
Sand, White, 30/50	Baker Hughes	Proppant	White Mineral Oil	8042-47-5	30%	0.00716%
			Crystalline Silica (Quartz)	14808-60-7	100%	7.17454%
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.31543%
OilPlus Bulk (30/50)	Baker Hughes	Proppant	Quartz (Silica)	14808-60-7	100%	3.98467%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.0012%
			Ethylene Glycol	107-21-1	30%	0.00718%
Ingredients shown above are subject to 29 CFR 1910			Cured Resin	Trade Secret	0%	0.0007922%
			Fatty Acid Esters	67701-32-0	0%	3.44E-05%
			Fatty Acid Oxyalkylate	70142-34-6	0%	3.6E-06%
			Formaldehyde	50-00-0	0%	9E-07%
			Glutaraldehyde	111-30-8	0%	0.0042463%
			Methanol	67-56-1	0%	3.54E-05%