

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 8, 2013

1. WELL API NO.
30-025-41959

2. Well Name:
BRININSTOOL 4 STATE #004H

3. Well Number:
004H

HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment	4. Surface Hole Location: Unit:M Lot:M Section:4 Township:24S Range:33E Feet from:175 Feet from:1050	5. Bottom Hole Location: Unit:D Lot:4 Section:4 Township:24S Range:33E Feet from:330 Feet from:934 E/W Line:W
	6. latitude: 32.23399368701293	longitude: -103.58235891554
	7. County: Lea	

8. Operator Name and Address: MURCHISON OIL & GAS INC Legacy Tower One 7250 Dallas Pkwy, Ste 1400 Plano 75024	9. OGRID: 15363	10. Phone Number: 972-931-0700
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11. Last Fracture Date: 10/19/2014 Frac Performed by: Baker Hughes	12. Production Type: O
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13. Pool Code(s): 59900	14. Gross Fractured Interval: Confidential
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15. True Vertical Depth (TVD): 10,975 ft	16. Total Volume of Fluid Pumped: 3,354,414 gals
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17. Total Volume of Re-Use Water Pumped: N/A	18. Percent of Re-Use Water in Fluid Pumped: Not Disclosed
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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		
HCl, 7.6 - 10%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	100%	85.55971%
Activator, 330 gal tote	Baker Hughes	Activator	Alcohols, C12-14-Secondary, Ethoxylated	84133-50-6	70%	0.10575%
			Methanol	67-56-1	50%	0.01734%
			Polyethylene glycol	25322-68-3	5%	0.00173%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.0047%
GBW-5	Baker Hughes	Breaker	Ammonium persulphate	7727-54-0	100%	0.00627%
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.0036%
BF-9L, 300 gal tote	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.07309%
			Potassium Hydroxide	1310-58-3	30%	0.03654%
ClayCare, ClayTreat-2C, 330 gl tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.07083%
CI-27 (260 gal tote)	Baker Hughes	Corrosion Inhibitor	Water	7732-18-5	30%	0.02533%
			Fatty Acids	Trade Secret	30%	0.00028%
			Methanol	67-56-1	60%	0.00056%
			Olefin	Trade Secret	5%	5E-05%
			Polyoxyalkylenes	Trade Secret	30%	0.00028%
			Propargyl Alcohol	107-19-7	10%	9E-05%
			Thiourea Polymer	68527-59-1	30%	0.00028%
XLW-30G, tote	Baker Hughes	Crosslinker	2-methyl-4-isothiazolin-3-one	Trade Secret	0%	0%
			5-Chloro-2-methyl-3-(2H)-Isothiazolone	Trade Secret	0%	0%
			Acrylamide-acrylic acid copolymer, sulfonemethylated,	Trade Secret	1%	0.00053%
			Cellulose	Trade Secret	2%	0.00106%
			Clay	Trade Secret	3%	0.00159%
			Crystalline Silica	14808-60-7	1%	0.00053%
			Quartz			
			Magnesium chloride	Trade Secret	0%	0%
			Magnesium nitrate	Trade Secret	0%	0%
			Potassium Formate	Trade Secret	30%	0.0159%
			Sodium bisulfate	Trade Secret	1%	0.00053%
			Sodium chloride	Trade Secret	1%	0.00053%
			Sodium formaldehyde bisulfate	Trade Secret	1%	0.00053%
			Sodium glycolate	Trade Secret	1%	0.00053%
			Ulexite Mineral	Trade Secret	40%	0.02119%
			Water	Trade Secret	60%	0.03179%
XLW-4	Baker Hughes	Crosslinker	Sodium Tetraborate	1303-96-4	30%	0.00885%
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer	1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propen-1-yl)amino], polymer with 2-propenamide, sodium	Trade Secret	60%	0.00513%
			Hydrotreated Light Distillate	64742-47-8	30%	0.00257%
			Oxyalkylated alcohol	Trade Secret	5%	0.00043%
			Sodium Chloride	7647-14-5	5%	0.00043%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	60%	0.28951%
			Hydrotreated Light Distillate	64742-47-8	30%	0.14475%
			Mineral Oil	8042-47-5	70%	0.33776%
			Paraffinic Petroleum Distillate	64742-55-8	30%	0.14475%
GW-4	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	100%	0.00122%
AG-12, 330 gl tote	Baker Hughes	Gelling Agent	Acrylic Polymers	Trade Secret	60%	0.00343%
			Hydrotreated Light Distillate	64742-47-8	30%	0.00172%
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Propylene Glycol	57-55-8	15%	0.01276%
Parasorb 5000, bag	Baker Hughes	Paraffin Inhibitor	Acetic acid ethenyl ester, polymer with ethene	Trade Secret	15%	0.00367%
			Crystalline Silica (Cristobalite)	14464-46-1	1%	0.00024%
			Crystalline Silica (Quartz)	14808-60-7	1%	0.00024%
			Diatomaceous Earth, Calcined (kieselguhr)	91053-39-3	70%	0.01714%
			Diatomaceous Earth, Natural (kieselguhr)	61790-53-2	10%	0.00245%
			Mineral Oil	Trade Secret	15%	0.00367%
Sand, White, 30/50	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	9.77552%
Sand, White, 100 mesh	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.31585%
OilPlus Bulk (30/50)	Baker Hughes	Proppant	Quartz (Silica)	14808-60-7	100%	1.75103%
Scaletrol 720, 330 gl tote	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.00141%
			Ethylene Glycol	107-21-1	45%	0.01273%
Ingredients shown above are subject to 29 CFR 1910			2-Propenol	71050-62-9	0%	0.0056593%
			Polymer with Sodium Phosphinate, Sodium Salt			
			Benzenesulfonic acid, hexadecyl (sulfohenoxyl)-, disodium salt	Trade Secret	0%	0.0017014%
			Diester of Sulfosuccinic Acid Sodium Salt	2673-22-5	0%	5.72E-05%
			Fatty Acid Esters	67701-32-0	0%	0.0001145%
			Fatty Acid	70142-34-6	0%	5.72E-05%
			Oxyalkylate			
			Formaldehyde	50-00-0	0%	5E-07%
			Hydrated Magnesium Silicate	Trade Secret	0%	3.6E-05%
			Methanol	67-56-1	0%	3.91E-05%
			Nonionic glycol ester	Trade Secret	0%	0.0212673%
			Oxyalkylated alkylphenol	Trade Secret	0%	0.0002862%
			Poly (Tetrafluoroethylene)	Trade Secret	0%	1.8E-05%
			Polyoxyethylene sorbitan monooleate	9005-65-6	0%	0.0004276%
			Potassium Chloride	7447-40-7	0%	0.000283%
			Sodium Chloride	7647-14-5	0%	0.0002876%
			Sodium lauriminodipropionate	Trade Secret	0%	0.0008507%
			Sodium octylimodipropionate	Trade Secret	0%	0.0025521%
			Sorbitan, mono-(9Z)-9-octadecenoate	1338-43-8	0%	0.0004276%
			Vinylidene Chloride-Methyl Acrylate Polymer	Trade Secret	0%	0.0008989%
			Water	7732-18-5	0%	1.0512271%
				Trade Secret	0%	0.0680553%
			Xylene	1330-20-7	0%	5.72E-05%

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: Cindy Cottrell

Title: Regulatory Coordinator

Date: 11/5/2014

E-mail Address: ccottrell@dmil.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.