

## MBOGC Pre-Frac Disclosure Statement

**Well Operator:** Fidelity E&P Company  
**Well Name:** 71 Ranch 44-1H  
 Location  
 Footage  
 Elev  
 County, State Rosebud, MT



All volumes, concentrations, chemical compositions and wellbore details are approximate.

### Wellbore Information

Lateral Length	4,802	ft
Number of Stages	16	
Proppant Concentration	333	lbs/ft
Total Proppant Volume	1,600,000	lbs
Type of Proppant	Sand	
Total Fluid Concentration	17	gal/ft
Fluid Volume	82,887	gal
Type of Fluid	25# Cross	linked gel

### Fluid Information

Chemical Constituents of Frac Fluid	Description	Estimated Concentration	Units	Total	Units
DWP-621	Friction Reducer	0.5	gpt	208	Gal
DWP-111	Gel Slurry	6.3	gpt	5,104	Gal
DWP-123	Crosslinker	3.0	gpt	2,384	Gal
DWP-204	Buffer	0.5	gpt	416	Gal
DWP-913	Clay Control	1.0	gpt	1,232	Gal
DWP-931G	Non-Emulsifier	1.0	gpt	1,232	Gal
DWP-944	Biocide	0.2	gpt	256	Gal
15% HCl	Acid			1,500	Gal
DAP-925	Acid Additive	0.5	gpt	16	Gal
DWP-902	Breaker	2.5	ppt	1,376	lbs

### Other Potential Chemical Constituents

CO2 - 560 tons

### Per Stage Volume Estimate

Friction Reducer	13	Gal
Gel Slurry	319	Gal
Crosslinker	149	Gal
Buffer	26	Gal
Clay Control	77	Gal
Non-Emulsifier	77	Gal
Biocide	16	Gal
Acid	94	Gal
Acid Additive	1	Gal
Breaker	86	lbs

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Stage	Slurry			Fluid				Chemical Additives					
	Slurry Rate (bpm)	Clean Rate (bpm)	Clean Fluid (gal)	Clean Fluid (bbbls)	Clean Fluid (bbbls)	Cum (bbbls)	Friction Reducer (gpt)	Gel Slurry (gpt)	Crosslinker (gpt)	Buffer (gpt)	Clay Control (gpt)	Biocide (gpt)	HT Encapsulated Breaker (gpt)
	DWP-621	DWP-111	DWP-123	DWP-204	DWP-913	DWP-944	DWP-902						
Pump in - [CWS-600]	10.0	10.0	6,000	143	143	143	0.50				1.00	0.20	
Acid - [15% HCl]	10.0	10.0	1,500	36	179	179					1.00	0.20	
Sweep - [CWS-600]	30.0	30.0	2,000	48	226	226	0.50						
Pad													
Sweep - [CWS-600]	30.0	30.0	1,500	36	262	262	0.50				1.00	0.20	
0.5 ppg Sand - [CWS-600 / Sand, 100 Mesh]	30.0	29.3	5,000	119	381	381	0.50				1.00	0.20	
1 ppg Sand - [CWS-600 / Sand, 100 Mesh]	30.0	28.7	5,000	119	500	500	0.50				1.00	0.20	
Pad - [Linear Gel]	30.0	30.0	1,500	36	536	536		6.25		0.50	1.00	0.20	1.00
Pad - [DynAqua-1]	30.0	30.0	2,000	48	583	583		6.25	3.00	0.50	1.00	0.20	1.00
0.5 ppg Sand - [DynAqua-1 / White Sand, 20/40]	30.0	29.3	4,500	107	690	690		6.25	3.00	0.50	1.00	0.20	1.00
0.75 ppg Sand - [DynAqua-1 / White Sand, 20/40]	30.0	29.0	5,000	119	810	810		6.25	3.00	0.50	1.00	0.20	1.00
1 ppg Sand - [DynAqua-1 / White Sand, 20/40]	30.0	28.7	6,000	143	952	952		6.25	3.00	0.50	1.00	0.20	1.00
1.5 ppg Sand - [DynAqua-1 / White Sand, 20/40]	30.0	28.1	9,000	214	1,167	1,167		6.25	3.00	0.50	1.00	0.20	1.20
2 ppg Sand - [DynAqua-1 / White Sand, 20/40]	35.0	32.1	8,500	202	1,369	1,369		6.25	3.00	0.50	1.00	0.20	1.50
3 ppg Sand - [DynAqua-1 / White Sand, 20/40]	35.0	30.8	8,000	190	1,560	1,560		6.25	3.00	0.50	1.00	0.20	1.80
4 ppg Sand - [DynAqua-1 / White Sand, 20/40]	35.0	29.7	6,500	155	1,714	1,714	0.50	6.25	3.00	0.50	1.00	0.20	2.00
Flush - [CWS-600]	35.0	35.0	6,136	146	1,860	1,860					1.00	0.20	2.50
							13	319	149	26	77	16	86

Totals for the 12 stages in this program

156	3828	1788	312	924	192	1032
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