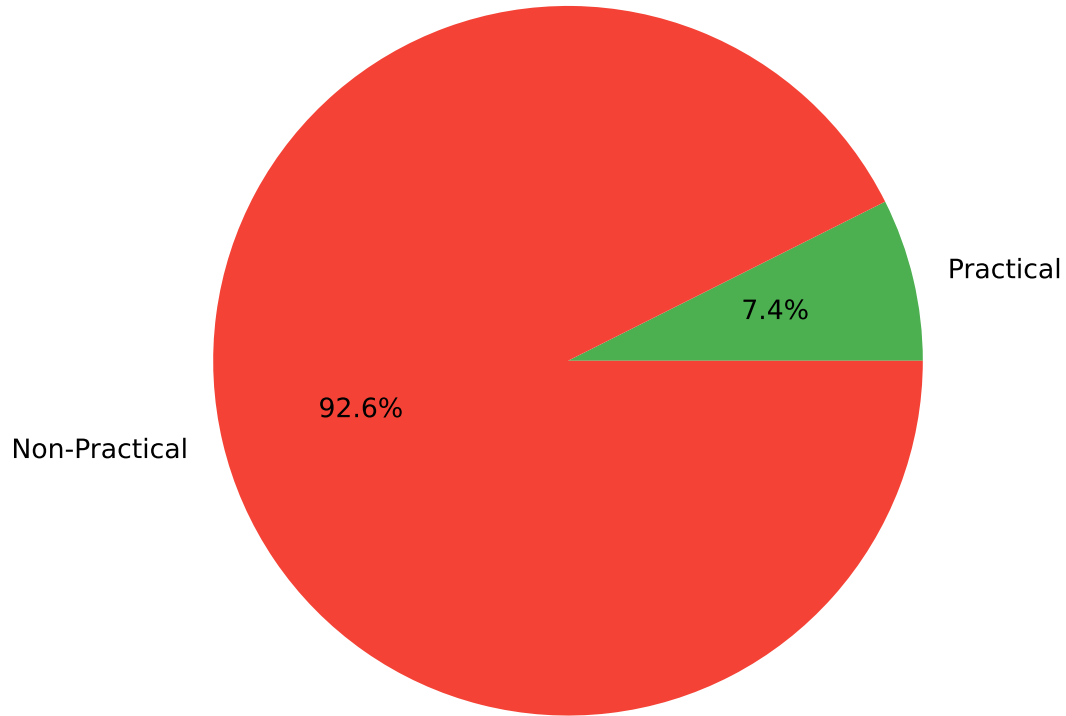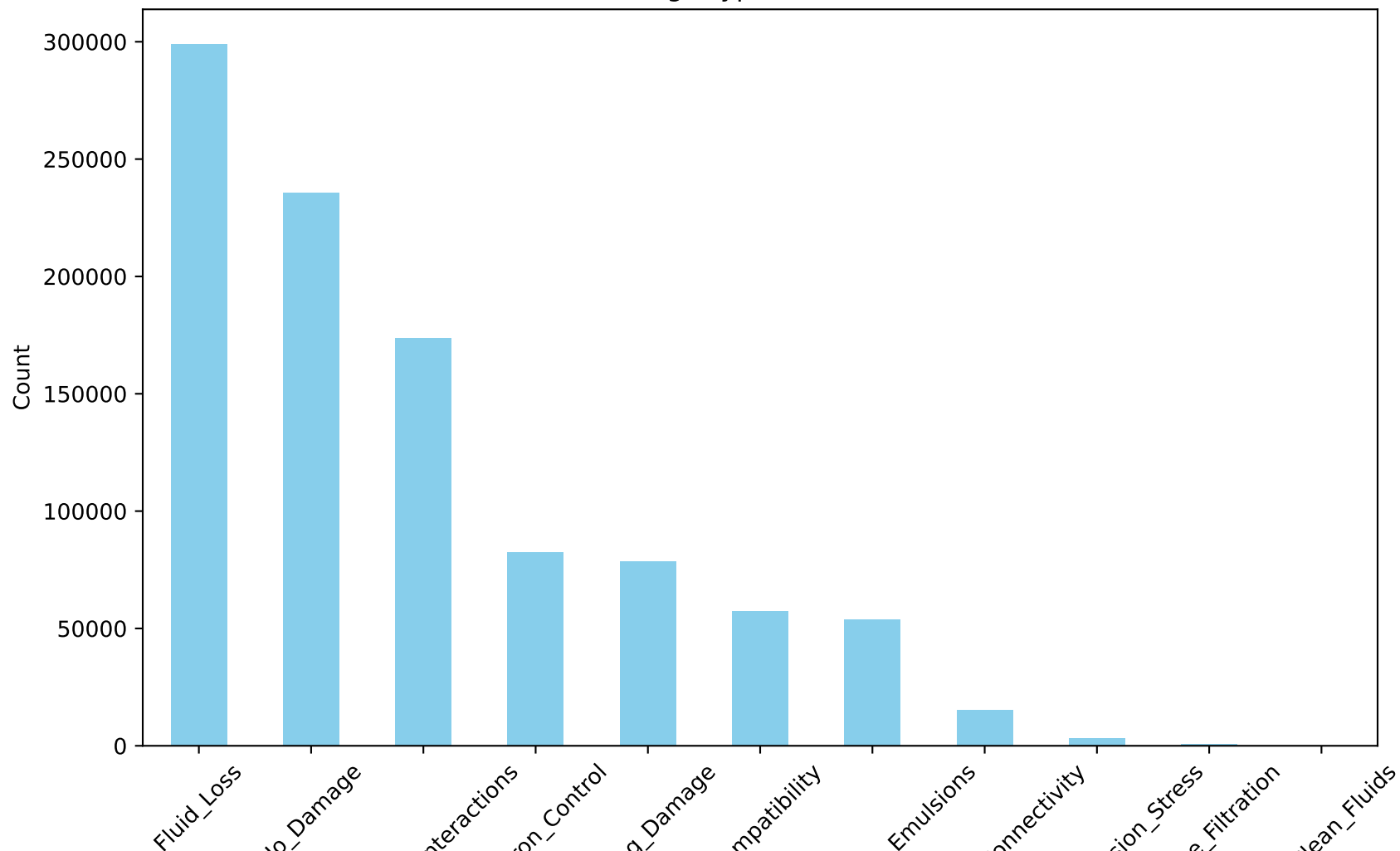# Formation Damage Analysis Report

Generated: 2025-05-24 10:53
Records Processed: 1,000,000
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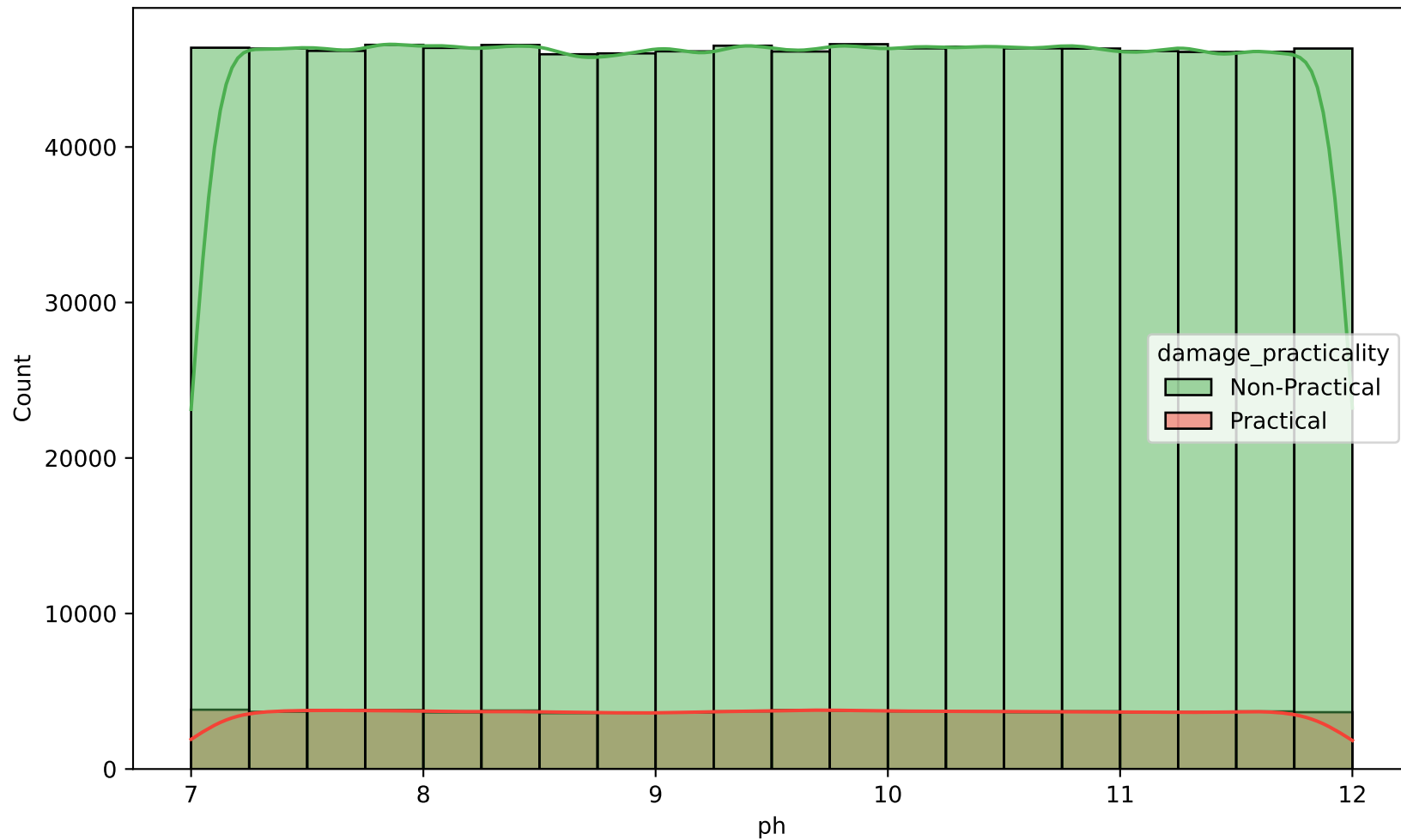
Damage Practicality Distribution
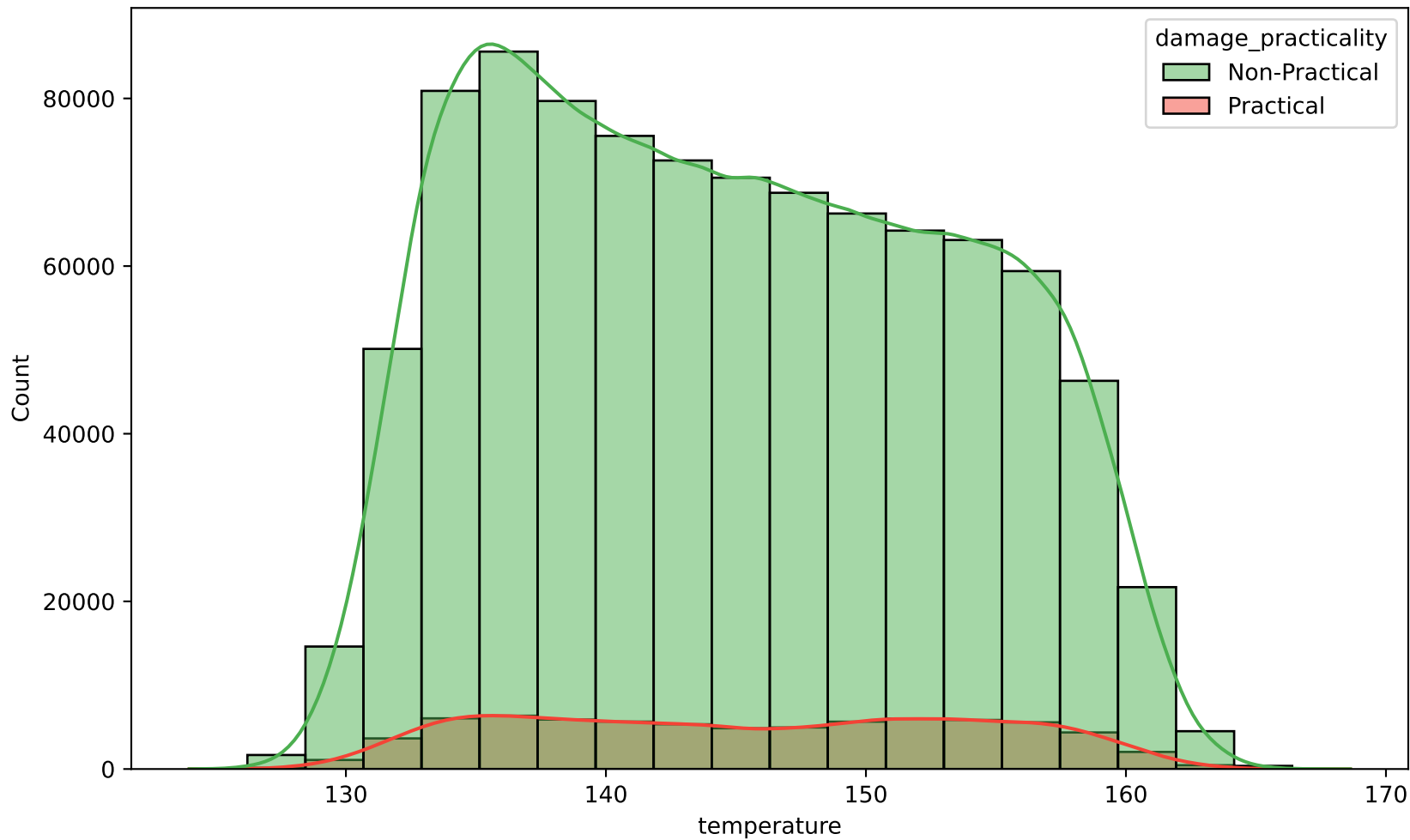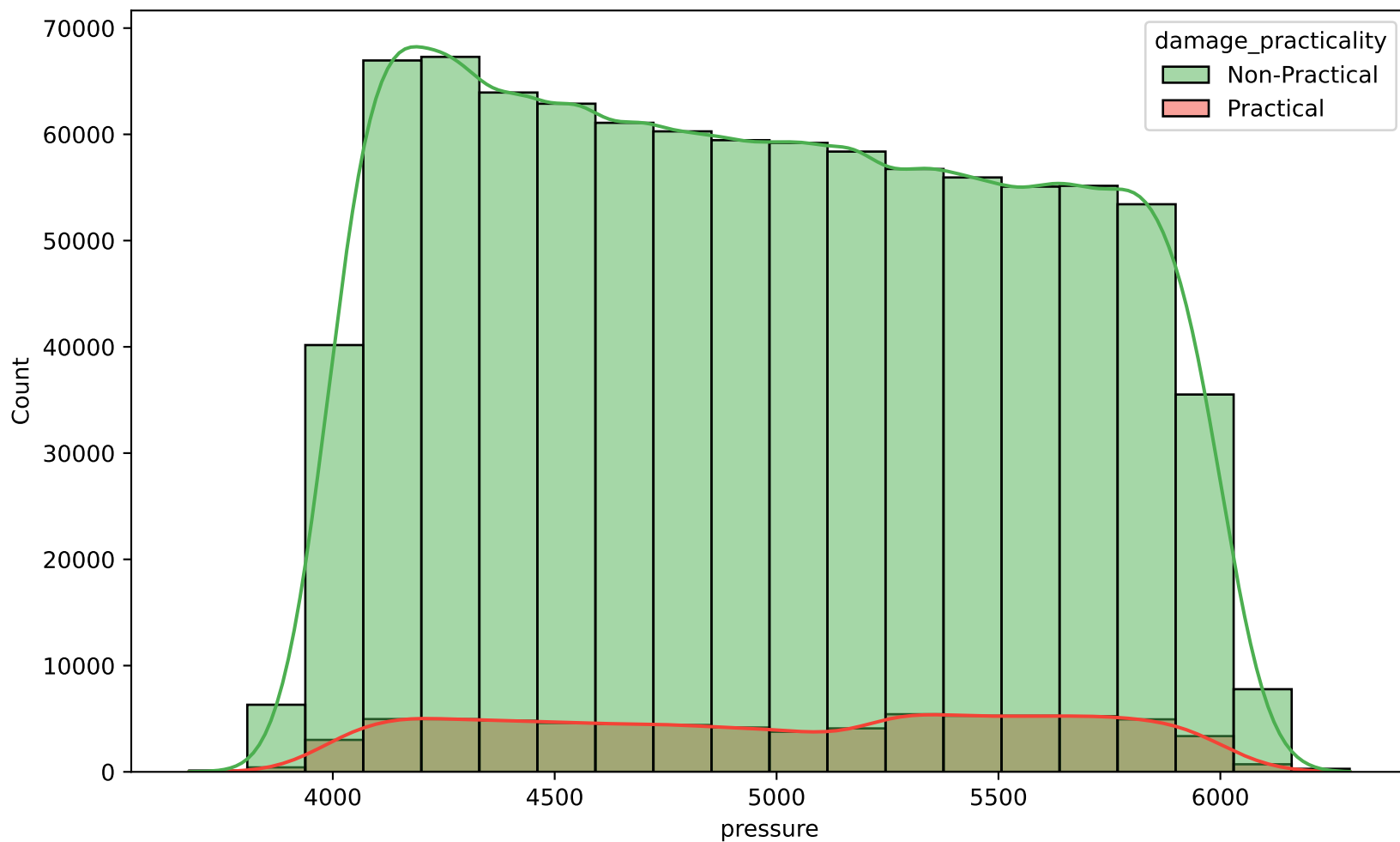
Damage Type Distribution

Ph Distribution

Temperature Distribution

Pressure Distribution

Sample Practical Records:

well_id	CSG	LR	timestamp	depth	pressure	temperature	porosity	permeability	ROP_current	clay_content	quartz_content	calcite_content	kerogen_content	backfold_indent	brittleness_index	fluid_type	completion_type	stimulation_method	mud_weight	mud_viscosity	tip	api_strength	pH	salinity	flow_current	flux	size	count	flow_rate	flux	conductance	perforation_density	clay_reactivity	clubs_calco	fluid_incompatibility	damage_type	damage_potential%
XTO_00001	XTO	44.8608345315	11.430897635541	2021-01-01 00:00:00	2600.83053547	3064.91650179615	122.603248802216	7.8941245888216	15.0	1.993761345111		24.2167344266514	11.0076544728116	4.65.683.2953151	4.242.286173717	0.45406518513.51	Oil Based	Cased Hole	Acidizing	12.0165545214553	35.173.168155115	17.932.7215399.17	15.9481724585.51	9.442.610357108	15613.01610	7.20294504 8419.77	1323	2484 78533	44.4226708467308	130.544458809173	12.73947.320.1101	204.060949471373	4.373508008339	130.123715308013.10	1.5378.52088105.17	0.7620899350001.0	Near_Wellbore_Emulsion	Practical
XTO_00002	XTO	44.8608345315	11.430897635541	2021-01-01 00:10:00	3472.81834071	127.113569715461		15.0	4.25.386013.21135	7.122285715910	31.483347.933356	12.0.20787.68567	7.476535245.111	4.80450015.25501	0.414360909460003	Water Based	Cased Hole	Acidizing	8.41880.90422477	9.9750298.78447.1	4.80059709281.12	123.088333.686 181	15946.09000	1.5483090870730	1553	1324.4105651.0	17.296.008082.613	779.403001.11	12.906533902.86600	167.19463760340	1.9940384360916.0	14.69156809265.0	13.2826734790.01	3.460330209575.0	Near_Wellbore_Emulsion	Practical
XTO_00003	XTO	44.8608345315	11.430897635541	2021-01-01 00:20:00	2862.35904247.0	2862.35904247.0	121.903345227677	7.7170842585.718	15.0	1.2418324805.10	6.1453.0985.991.01	37.04.373.008113.16	11.4119088.609.60	4.71491.5013655.16	0.761296.09.3590	6.4145.85690.001.10	Water Based	Cased Hole	Acid	8.22193005600.10	12.2299546.32.760	14.20947313.1781	8.6296834.24181	12.5916361.66001	2876.9513073.01.0	10.4015.9381.9157	1553	136.2952.9973.0	730.52746.117.67.0	12.946357808000	724.240400308948	9.92448288742.0	13.3549858.9424.0	1.010.9715840757.0	0.388.588827355	Near_Wellbore_Emulsion	Practical