*Loc*PROP

MAXIMIZING WELL PRODUCTIVITY

*Loc*PROP is engineered to provide maximum control over well fracture formations. The curable polymer coating is applicable to any proppant effectively increasing wellbore life-spans, thus reducing costly clean-out procedures. Encapsulated proppant maintains or increases pack integrity and prevent particle wear and release.

FEATURES

- Bonds in the fracture with well temperature and closure
- Bonded proppant reduces flow stress on pack
- Minimum to no loss of permeability/conductivity

BENEFITS

- Broadens proppant range of applications
- Reduces proppant loss extending life-span of well
- Maintains structural integrity preventing particle loss
- Variable rates of bonding – allowing control over wellbore packing from 48 hours to 9 days
- No extensive chemical steps – jobs can be pumped as designed without change
- Sediment and sand control – prolonging well life-time
- Easily modifiable chemistry specific design applications
- Limits fines intrusion into wellbore

Reference Conductivity*, md-ft @ 250°F

Closure Stress [psi]	2 lb/ft² 12/18	2 lb/ft² 16/20	2 lb/ft² 20/40	2 lb/ft² 30/50	2 lb/ft² 40/70
2,000	38,795	24,629	10,700	4,640	2,200
4,000	24,558	17,781	8,900	3,740	1,660
6,000	9,941	9,035	6,000	2,870	1,270
8,000	4,839	4,623	3,700	1,900	870
10,000	2,234	2,398	2,000	1,270	555
12,000	—	—	—	650	340

Reference Permeability*, Darcies @ 250°F

Closure Stress [psi]	2 lb/ft² 12/18	2 lb/ft² 16/20	2 lb/ft² 20/40	2 lb/ft² 30/50	2 lb/ft² 40/70
2,000	2,003	1,288	570	250	135
4,000	1,325	955	480	200	100
6,000	570	510	340	160	80
8,000	293	276	210	110	60
10,000	141	150	120	75	35
12,000	—	—	—	40	25

* Estimated from uncoated proppant distributor's published values

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CLEAN, GREEN, SUSTAINABLE MATERIALS SOLUTIONS