

EZ Squeeze

High Fluid Loss, Extensive Particle Size Loss Circulation Squeeze Blend

DESCRIPTION

EZ Squeeze is a high fluid loss, high solids, lost circulation squeeze material. A solid plug is formed within the loss zone when the liquid phase is squeezed from the slurry rather than remaining at or near the face of the wellbore. This minimizes the possibility of the seal being removed during drilling operations, eliminating repeated remedial treatments of the same zone which is common in most "squeeze LCM's"

TYPICAL PHYSICAL PROPERTIES:

- Bulk Density Compacted (lb. / ft): 44.8
- Bulk Density Non-Compacted (lb. / ft): 22.2
- Appearance: Off White/Gray Powder
- Specific gravity (g/mL): 1.84
- pH in 1% solution: 11.8-12.5

RECOMMENDED TREATMENT:

TCI recommends using EZ Squeeze to remediate partial to massive losses in the open hole and/or sealing perforations in cased hole.

HANDLING:

Available in 25 or 50 lb. sacks.

EZ Squeeze Particle Size Distribution

De-Watered EZ Squeeze "Plug"



US Mesh Screen Size (Micron)	Product Retained, g
6 (3400µ)	4.0
8 (2360µ)	7.0
10 (2000µ)	6.2
14 (1400µ)	13.5
18 (1000µ)	8.0
35 (500µ)	10.1
60 (250µ)	40.4
100 (150µ)	7.1
120(125µ)	2.2

DRILLING FLUID ADDITION COMPATIBILITY:

EZ Squeeze can be mixed in all drilling fluid types.

BENEFITS:

- ✓ Solves partial to massive loss circulation events. The key factor to obtaining a successful EZ Squeeze placing the EZ Squeeze slurry at the proper location in the wellbore (where assumed losses are occurring).
- ✓ Eliminates risk of sidetracking (which can occur with cementing).
- ✓ Pumping EZ Squeeze is less costly than pumping redundant generic loss circulation material.
- ✓ The optimal particle size blend seals multi-sized fractures and reduces effective response time to whole mud losses.
- ✓ EZ Squeeze can be mixed in all fluid types.
- ✓ Mixes easily through the hopper.

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Mixing Requirements

- Empty, isolated mixing tank.
- E Z Squeeze can be pre-mixed at any time. As long as no barite is added, EZ Squeeze can remain in the mixing tank for weeks, needing to be mixed at low shear rate for 15 min/day.
- DO NOT contaminate the EZ Squeeze slurry with the active system mud or other pre-mixed LCM pills.
- Patience and Time are a necessity in achieving a successful squeeze job.
- If a weighted slurry has been mixed prematurely, add additional EZ Squeeze and/or base fluid to prevent barite settling.
- Ideally, enough EZ Squeeze should be mixed to cover all potential loss zones, as well as enough excess volume for hesitation squeeze operation.

EZ Squeeze Mixing Chart

Mixed in Freshwater, Density, ppg	Lbs.	Sacks, per bbl	Barite, sacks	Water, bbl
8	100	4.0	0.0	.75
9	100	4.0	0.0	.75
10	100	4.0	0.6	.72
11	94	3.8	1.2	.70
12	84	3.3	1.8	.67
13	78	3.2	2.3	.65
14	70	2.8	2.9	.63
15	62	2.5	3.5	.60
16	56	2.3	4.0	.58
17	50	2.0	4.6	.56
18	44	1.8	5.2	.53
19	34	1.3	5.8	.51

Generic EZ Squeeze Bullhead Mixing and Pumping Procedure: 100 bbls in Freshwater

1. Clean mixing pit and lines thoroughly leaving no residual mid in the pit or the lines.
2. Add 75 bbls of freshwater, 2 pails of Turbo-Defoamer and 4 pails of EZ Thin to the mixing pit.
3. Add 400 sacks of EZ Squeeze to the mixing pit and allow agitation until the slurry is homogenous.
4. Add barite to achieve desired slurry weight.
5. Pull the bit inside the casing and pump 100 bbls of EZ Squeeze slurry down the drill pipe at 3-5 bpm. When EZ Squeeze reaches the bit, stop pumping and close the hydril. Continue bullheading the EZ Squeeze slurry @ 2 bpm.
6. If at anytime the casing pressure increases 100-150 psi over the injections rate, attempt to bring the pressure back up.
7. Shut down for 1 hour.
8. Begin hesitation squeezes by pumping 5 bbl increments at 0.5-1 bpm allowing 45 minutes - 1 hour between hesitations until 100 psi is achieved on the backside. Once 100 psi is achieved, begin building pressure in 50 -100 psi increments till the desired pressure is achieved. If no pressure is attained upon squeezing half of the slurry, pump half of the remaining slurry into the formation and wait 2 hours. Resume squeezing by pumping 3 bbl increments @ 0.5 bpm until desired pressure is achieved. Shut down and monitor for 4 hours.
9. After 4 hour wait, slowly bleed the pressure off the annulus, open the hydril and monitor the well and continue with rig operations.

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