



STUCK PIPE FREEDOM WORKSHEET

STUCK PIPE MECHANISM			
PIPE MOTION PRIOR TO STICKING?	PACK-OFF BRIDGE	DIFFERENTIAL	WELLBORE GEOMETRY
Moving up	2	0	2
Rotating up	0	0	2
Moving down	1	0	2
Rotating down	0	0	2
Static	2	2	0
PIPE MOTION AFTER STICKING?			
Down Free	0	0	2
Down Restricted	1	0	2
Down Impossible	0	0	0
PIPE ROTATION AFTER STICKING?			
Rotate Free	0	0	2
Rotate Restricted	2	0	2
Rotate Impossible	0	0	0
CIRC. PRESSURE AFTER STICKING?			
Circulation Free	0	2	2
Circulation Restricted	2	0	0
Circulation Impossible	2	0	0
TOTALS			

INSTRUCTIONS:

Answer the shaded questions by circling all the numbers in the row with the correct answer.

Add the columns, the column with the highest number indicates the sticking mechanism.

FREEDOM WELLBORE GEOMETRY
INITIAL ACTION:
1. If sticking occurred while moving up, apply torque and jar DOWN with maximum trip load.
If sticking occurred while moving down, do not apply torque and jar UP with maximum trip load.
2. Stop or reduce circulation when cocking the jar and when jarring down. NOTE: Pump pressure will INCREASE the hydraulic jar up-blow, DECREASE the down-blow.
3. Continue jarring until the string is free or an alternative decision is made. Jarring for 10+ hours may be necessary.
SECONDARY ACTION:
Spot acid if stuck in Limestone or Chalk. Spot fresh water if stuck in mobile salt.
WHEN THE STRING COMES FREE:
4. Increase circulation to maximum rate, rotate and work the string.
5. Ream/backream the hole section thoroughly.
6. Circulate the hole clean.
7. Underream hole section or remediate in another way.

FREEDOM PACK-OFF / BRIDGE
STUCK WHILE MOVING UP or WITH STRING STATIC
ACTION TO ESTABLISH CIRCULATION:
1. Apply low pump pressure (200-400) psi. Maintain pressure if restricted circulation is possible
2. DO NOT JAR UP!! APPLY TORQUE!!! Slack-off to MAXIMUM set down weight. Allow sufficient time for a hydraulic jar to trip (4-6 min. for long cycle, see jar manual)
3. If the string does not come free, DO NOT JAR UP!!! Jar DOWN until the string comes free or an alternative decision is made. Jarring down for 10+ hours may be necessary.
ONCE CIRCULATION IS ESTABLISHED
4. Slowly increase pump speed to maximum rate. When possible, work the string and circulate the hole clean from bit depth.
5. Ream the section until the hole is clean
6. If POOH to log and or run casing return to bottom & circulate hole clean

FREEDOM DIFFERENTIAL STICKING
STUCK WHILE MOVING DOWN
ACTION TO ESTABLISH CIRCULATION:
1. Apply low pump pressure (200-400) psi. Maintain pressure if restricted circulation is possible
2. DO NOT JAR DOWN!! APPLY TORQUE!!! Apply MAXIMUM overpull to jar. Allow sufficient time for a hydraulic jar to trip (4-6 min. for long cycle, see jar manual)
3. If the string does not come free, DO NOT JAR DOWN!!! Jar UP until the string comes free or an alternative decision is made. Jarring up for 10+ hours may be necessary.
ONCE CIRCULATION IS ESTABLISHED
4. Slowly increase pump speed to maximum rate. When possible, work the string and circulate the hole clean from bit depth.
5. Ream the section until the hole is clean
6. Continue RIH until excessive set down weight is observed, circulate hole clean.

FREEDOM DIFFERENTIAL STICKING
Not on bottom
INITIAL ACTION:
1. Circulate at maximum allowable rate.
2. Work Maximum limit torque down to the stuck depth and hold the torque in the string.
3. Stop or reduce pump speed to minimum.
4. Slack-off MAXIMUM set down limit!
5. Allow sufficient time for a hydraulic jar to trip (4-6 min. for long cycle, see jar manual).
6. If the string does not come free, hold torque in the string and continue jarring down with maximum trip load.
SECONDARY ACTION:
If the string does not come free after 5 to 10 jar blows, continue jarring while preparing a pipe releasing pill.
WHEN THE STRING IS FREE:
7. Rotate & work the string.
8. Circ. at max. rate to clean the hole.
9. Check the proper mud specifications.