

	HydraShock Jointed Pipe		Treatment Date
			July 10, 2016
	Rescue JP Case History		Pages
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Document Number	Approver Position	HydraShock CT Product Line Manager	
ResJP-000001	Approver Name	Lauren Mendenhall	

Days stuck before called:

Location:

Formation:

4 yielding, while also dictating the highest category  
 Carrollton, OH ΔnBall™ deployable, of the six currently available.  
 Utica Prior to the arrival of the HydraShock technician, a  
 maximum of 194,000lbs (tension) and up to 4,000  
 lb-ft of torque had been applied multiple times to  
 attempt to free the work string.

Scope of Work:

Assist in removing a jointed pipe milling BHA  
 utilizing the Hydra Shock Pumpdown System.

Background:

Workstring: 2.875" 7.80lb/ft SMAX  
 HydraShock: 500 Series HydraShock JP Rescue  
 Immediate Concerns: work string 100% packed  
 off with no annular flow  
 SICP: Opsi

Initially the job data was transferred to Hydra Shock  
 LLC from the tool company on location, the tubing  
 profile data showed the need for a 2.188" lock.  
 Hydra Shock LLC mobilized a specialist and tool  
 cases via commercial airline to Pittsburgh, PA. Upon  
 arrival the Hydra Shock Specialist noted the nipples  
 on location had a 2.125" profile. This presented no  
 issue to the HydraShock team, as the JP system kits  
 come with three specific pump down mandrels for  
 each size tubing. Once the Hydra Shock Specialist  
 held a teleconference with the HydraShock  
 technical team to update the conditions on location,  
 the operations were commenced. The technical  
 team calculated the triaxial (combined stress  
 factors) forces on the tubulars to find the maximum  
 allowable axial, torsional, and delta pressure loads  
 able to be applied safely. This data dictated the  
 maximum limits the tubular could withstand before

Treatment:

The Hydra Shock Specialist arrived on location and  
 performed an injectivity test down the 2.875"  
 tubing to establish the ability to pump the required  
 rate to seat the jointed pipe rescue tool. Next, the  
 Hydra Shock Pump Down tool was deployed under  
 the high pressure swivel. Then, the Hydra Shock tool  
 was conveyed with approximately 57bbls of fresh  
 water and seated in the 2.125" profile nipple. The  
 Hydra Shock tool was deployed with a "Green"  
 control ΔnBall for the pumpdown procedure, which  
 is a lower range pressure ball. When the annular  
 fluid level is uncertain, whether from gas in the  
 annulus or lost circulation, a lower pressure ΔnBall  
 is utilized to safely ascertain an operational  
 baseline. After the control ball was released, the  
 next pressure range ball was selected to attempt to  
 free the tubing. A "Blue" ball was then deployed and  
 2,000ft-lbs of torque applied to the tubing. Once the  
 ball extruded, the tubing began to rotate  
 immediately. The workstring was then pulled free  
 on the first attempt to move uphole. After nearly 5  
 days of being stuck, the string was freed within 54  
 minutes of the HydraShock technician running the  
 tool system into the well.