Drill Collar Data & Performance Sheet

4-3/4" x 2-1/4" Spiral DC with NC38 (3-1/2 IF)

TUBE BODY DATA

Tube OD	4.750	in.
Wall Thickness	1.250	in.
Tube ID	2.250	in.
Material Grade	110,000	psi.
Tensile Yield Strength	1,123,119	lbs.
Torsional Yield Strength	73,460	ft-lbs.
Tube Burst	45,294	psi.
Tube Collapse	39,585	psi.

CONNECTION DATA

Connection	NC38 (3-1/2 IF)

CONNECTION PERFORMANCE

Make Up Torque (API)	11,000 12,650	ft-lbs. (1.0 FF) ft-lbs. (1.15 FF)
Connection Tensile Yield	711,800	lbs.
Connection Torsional Yield	17,600	ft-lbs.

ENGINEERING DATA

Approximate Length	30	ft.		
Drift Diameter	2.125	in.		
Adj. Weight	46.73	lbs. / ft.		
Displacement	0.7140	gal. / ft.	0.0170	bbls. / ft.
Capacity	0.2065	gal. / ft.	0.0049	bbls. / ft.
BSR	1.917			

Notes:

- Ensure sufficient MUT is applied to the connection. Stick and slip is very damaging to connections and can induce higher-than-planned torque. Adjust MUT according to thread compound friction factor. Higher MUT values may be used under extreme conditions and is recommended when downhole torque and/or backoff is a concern.
- Dimensions, wall thickness, and lengths shown above are nominal. Figures may exclude the effects of wear, stress relief, boreback, ID chamfers, and/or spiral features.

PATTERSON SERVICES INC
WWW.PATTERSONSERVICES.COM

Alice, Texas 361-668-8231 | Broussard, Louisiana 337-359-9900 | Elk City, Oklahoma 580-243-0055 | Odessa, Texas 432-563-2172 | Washington, Pennsylvania 724-222-1219 | Williston, North Dakota 701-572-1914