

ENVENTURE SET® **Solid Expandable System**



11.750 in. OD 47.00 lb/ft x 13.375 in. OD 68.00 lb/ft ESeal Liner

Var Energi AS Ringhorne Phase III

Preliminary

External Base Casing		SET Liner Pre-Expansion (2)	
Nominal OD	13.375 in.	SET Liner Grade	EX-80
Weight	68.00 lb/ft	Connection Type	GIIC
Nominal ID	12.415 in.	Nominal Yield Strength	80,000 psi
API Drift	12.259 in.	Minimum Ultimate Strength	95,000 psi
Connection Type	BTC	Nominal OD	11.750 in.
Connection ID	12.415 in.	Nominal ID	11.000 in.
Other ID Restriction	12.415 in.	API Drift	10.844 in.
		Nominal Wall Thickness	0.375 in.
Launcher		Weight	47.00 lb/ft
Launcher OD - Pre Exp	12.191 in.		
Launcher OD - Post Exp	12.250 in.		
		SET Liner Post-Expansion (2,3)	
Connection Sleeves		Nominal OD	12.238 in.
Set in Base Casing - Pre Exp OD	11.948 in.	Nominal ID	11.500 in.
Set in Base Casing - Expanded OD	12.318 in.	Drift	11.385 in.
		Nominal Wall Thickness	0.369 in.
		Nominal Weight	46.83 lb/ft
		Internal Yield	4,340 psi
XPC Pre-Expansion Connection Specifications		Burst (4)	5,750 psi
Tension Load Yield Rating	639,900 lb	Collapse Rating (5)	1,180 psi
Compressive Load Rating	639,900 lb	Expansion Ratio	4.5%
Minimum Parting Load	759,900 lb	Pipe Body Yield Strength	1,054,600 lt
Dogleg Severity Rating While Running	9.9 deg/100 ft		
		Anchor Hanger	
XPC Post-Expansion Connection Specifications		Set in Base Casing - Elastomer Thickness	0.180 in.
Tension Load Yield Rating	610,800 lb	Pre-Exp Seal OD	12.110 in.
Compression Load Rating	319,900 lb	Clad in Base Casing (nominal)	49.3%
Minimum Parting Load	734,000 lb		
Dogleg Severity Rating During Expansion	8.7 deg/100 ft	Limits while RIH	
		Max. Running OD	12.191 in.
Well Bore Conditions (1)		Max. Pump Rate (unlimited time)	6.0 BPM
SET String Length	1,800 ft		

(1) Changes in wellbore conditions require design review.

Wellbore Maximum Dogleg Severity

Bottomhole Temperature (BHT)

Deviation Mud Weight

(2) All the published liner ratings and strengths are based on room temperature (75F), and not adjusted for BHT.

0.0 deg/100 ft 0°

10.0 lb/gal

250 F

(3) Liner ratings are based on standlone liner without any support from base or external parent casing

(4) Hill's Fully-Plastic Burst Limit - Hill, R,. "The Mathematical Theory of Plasticity", Oxford University Press, 1950.

(5) Design collapse strength is calculated for 99.5% reliability (0.5% target reliability level) using post-expansion SET® collapse test data and ISO 10400 collapse calculation method G.4.1. All testing procedures followed API 5C3 / ISO 10400 guidelines.

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Engr: R. Keddie

Date Created: