

Downhole Installation Diagram

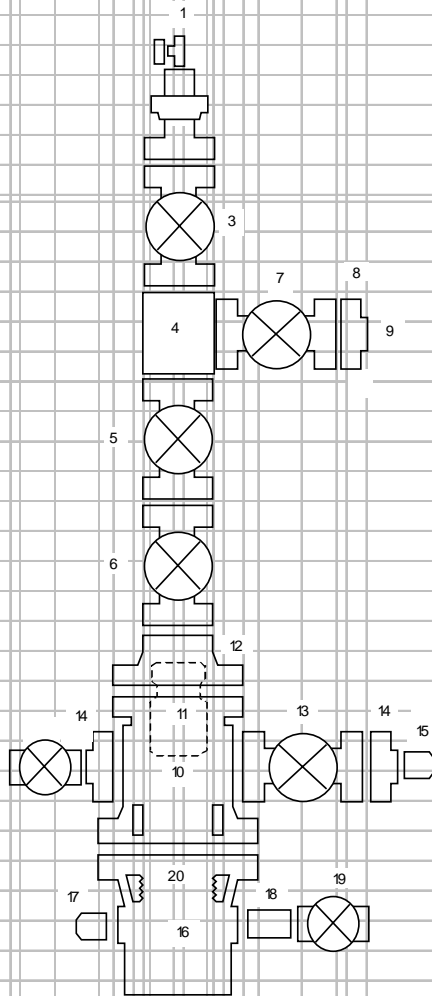
Well: **Dunbar 1 DW1**

Item No.	Description	Length (m)	Depth (m RT)				
			MD	Min ID			
1	RT to top of tubing spool flange	4.20					
2	Hanger, CIW FBB-EN 6" x 2-7/8" EUE w/ 2.5" Type 'H' BPV thread prep	0.30	4.20				
3	158 joints 2-7/8" EUE J55 6.5 ppf tubing	1521.41	4.50				
4	6' x 2-7/8" EUE tubing pup joint - 'marker'	1.90	1525.91				
5	10 joints 2-7/8" EUE J55 6.5 ppf tubing	96.29	1527.81				
6	2-7/8" EUE TOPCO float collar	0.36	1624.10				
7	1 joint 2-7/8" EUE J55 6.5 ppf tubing	9.62	1624.46				
8	2-7/8" EUE TOPCO float shoe	0.38	1634.08				
End of Tubing			1634.46				
A	Actual TOC @		1067.00				
B	Kick off point		~1215				
	Max dog leg 7 degrees/30 metres						
	Max inclination 28.8 degrees						
PERFORATIONS							
		Gun		Charges			
Formation	Interval (m RT)	Size	Type	SPF	Type	Ph	gm
Waarre 'A'	1559-1562 & 1564-1569	2.1/8"	HSD	6	NTX	60	6.4
Well perforated March 09, 2001							
Surface Casing		9-5/8" / 36-43.5 ppf / N80 / BTC shoe at 312 m KB					
Intermediate Casing		7" / 23-26 ppf / J55-N80 / LTC shoe at 1210 m KB					
Production casing		2-7/8" / 6.5 ppf / J55 / EUE shoe at 1624 m RT					
Cementing Details		300 sacks class G + 1% Halad 322					
Remarks		2-7/8" tubing cemented to create mono bore					
String Weight Calculated		Actual					
Wellsite Supervisor		B Beetson		Not to Scale			
Date of Installation		25/03/2001		Proposed			
Drafted by		BB		Date: 25/03/2001		Re-Completion	
Checked by		RAW		Date: 11/04/01		Completion X	

PBTD: 1622 m RT

Wellhead Diagram

Well: **DUNBAR 1 DW1**



C - Section

1	Needle valve, 1/2"NPT with 1/2" x 1" bush
2	Tree cap 5 1/2" Bowen union with 2 7/8" EUE
3	Gate valve, 2 9/16" 5M flanged, WGPC
4	Tee, 2 9/16" 5M x 2 1/16" 5M
5	Gate valve, 2 9/16" 5M flanged, WGPC
6	Gate valve, 2 9/16" 5M flanged, CIW
7	Gate valve, 2 1/16" 5M flanged, WGPC
8	Companion flange 2 1/16" 5M x 2" NPT
9	Bull plug 2" NPT

B - Section

10	Tubing spool, 7-1/16" 5M x 11" 3M
11	CIW, FBB; EN Tubing hanger, 2-7/8" EUE
12	Bonnet, 7-1/16" 5M x 2-9/16"
13	Gate valve 2 1/16" 5m flanged
14	2 1/16" Companion flange, 5M x 2" NPT
15	Bull plug 2" NPT

A - Section

16	Casing head 11" 3M x 9-5/8" with 2 x 2" npt outlets
17	2" NPT bull plug
18	2" NPT nipple
19	2" NPT ball valve
20	Slip and seal assembly 11" x 7"

Well Details	Surface	Intermediate	Production
Size (inches)	9-5/8"	7"	2-7/8"
Weight (ppf)	36 - 43.5	23 - 26	6.5
Grade	K55	K55 - N80	J55
Shoe (m KB)	312	1210	1634

Rig Supervisor	B Beetson		
Date Installed	26/03/01		
Drafted by	BB	Date	26/03/01
Checked by	RAN	Date	27/03/01