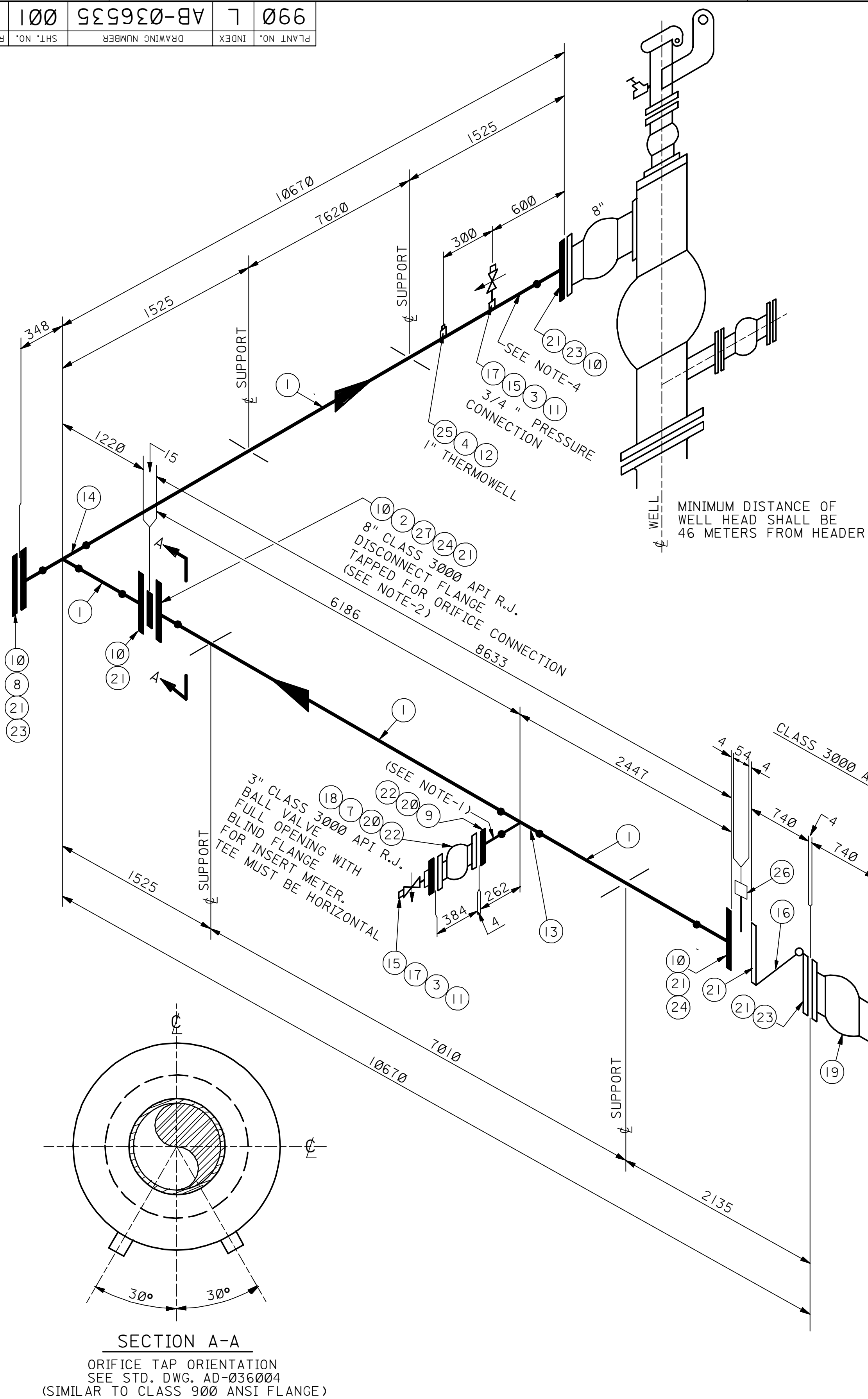


80	100	535930-BV	7	066
PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.



LIST OF MATERIALS (FOR ONE WELL HEAD PIPING INSTALLATION ONLY)				
ITEM NOS.	AMS NO.	QTY.	ISSUE UNIT	DESCRIPTION
1	01-167-665	70	FT.	PIPE: STL.; API-5L. GR. B.; 8"; 18.24mm W.T.
2	D/C	1	EA.	HOLDER: ORIFICE PLATE; HANDLE TYPE; C.S.; FOR 8" CLASS 3000 API R.J. FLANGES
3	02-120-460	2	EA.	PLUG: PIPE; BAR STOCK; C.S.; 3/4 "
4	02-120-461	1	EA.	PLUG: PIPE; BAR STOCK; C.S.; 1"
5	02-221-XXX	1	EA.	REDUCER: BW; C.S.; CONCENTRIC (BRANCH LINE SIZE x 8")
6	02-277-XXX	2	EA.	ELBOW: BW; C.S.; 45° LR; (BRANCH LINE SIZE) SCH. 120
7	02-375-414	1	EA.	FLANGE: BLIND; F.S.; R.J.; CLASS 3000 API; 3" TAPPED
8	02-375-434	1	EA.	FLANGE: BLIND; F.S.; R.J.; CLASS 3000 API; 8"
9	02-393-598	1	EA.	FLANGE: WN; F.S.; R.J.; CLASS 3000 API; 3" SCH. 80 BORE
10	02-411-050	6	EA.	FLANGE: WN; F.S.; R.J.; CLASS 3000 API; 8" SCH. 120 BORE
11	02-457-470	2	EA.	BOSS: WELDING; C.S.; 3/4 " 6000 LBS.; SOCKET WELD
12	D/C	1	EA.	THREDOLET: C.S.; 1" 6000 LBS.
13	02-605-570	1	EA.	TEE: REDUCER; BW 8" x 8" x 3"; (8" SCH. 120 & 3" SCH. 80)
14	02-607-613	1	EA.	TEE: BW; 8" SCH. 120
15	02-676-093	2	EA.	NIPPLE: C.S. BLK.; 3/4 " x 75mm; THREAD; SCH. XXS
16	04-120-164	1	EA.	VALVE: CHECK FLANGE; R.J.; CLASS 3000 API; 8"
17	04-461-804	2	EA.	VALVE: GLOBE; NEEDLE; THREAD; CLASS 6000 API; 3/4 "
18	04-604-823	1	EA.	VALVE: BALL; FLANGE; R.J.; CLASS 3000 API; 3"
19	04-604-938	1	EA.	VALVE: BALL; FLANGE; R.J.; CLASS 3000 API; 8"
20	06-142-717	2	EA.	GASKET: R.J.; CLASS 3000 API; 3"
21	06-142-737	8	EA.	GASKET: R.J.; CLASS 3000 API; 8"
22	10-354-550	16	EA.	BOLT: STUD; STL.; 7/8 " DIA. x 152mm LG. (FOR 3" CLASS 3000 API FLANGE)
23	10-355-875	48	EA.	BOLT: STUD; STL.; 1 3/8 " DIA. x 229mm LG. (FOR 8" CLASS 3000 API FLANGE)
24	10-355-891	24	EA.	BOLT: STUD; STL.; 1 3/8 " DIA. x 279mm LG. (FOR 8" CLASS 3000 API FLANGE WITH SPACER)
25	34-465-561	1	EA.	THERMOWELL: SST. 1" MALE; 1/2 " FEMALE; 200mm LONG
26	02-420-315	1	EA.	SPACER: STL.; 8" CLASS 3000 API; R.J.; DIM. PER STD. DWG. AD-036735
27	D/C	1	EA.	PLATE: ORIFICE; FOR 8" CLASS 3000 API; R.J.; FLANGES

- NOTES:
- GRIND FLUSH INSIDE WELD OF FLANGE ON 3" BRANCH OF KILL CONNECTION.
 - GRIND FLUSH INTERNAL EXCESS WELD DEPOSIT OF FLANGE TO PIPE CONNECTIONS AND REMOVE DRILLING BURRS FROM ORIFICE TAPS.
 - ORIENTATION OF WELL HEAD AND CONNECTING PIPING TO BE DETERMINED AT FIELD.
 - INSTALL 45° OR 90° ELBOWS, IF REQUIRED TO MAINTAIN MINIMUM B.O.L. ELEVATION OF 300 mm ABOVE GRADE AT FIRST SUPPORT.
 - THIS DRAWING SHOWS A TYPICAL WELL HEAD ARRANGEMENT IN 8 INCH NOMINAL PIPE SIZE. THE PIPE SIZE SHALL BE SELECTED SO THAT THE WATER VELOCITY AT DESIGN INJECTION RATES IS BETWEEN 1 AND 5 METER PER SECOND.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - ALL THREADED CONNECTIONS SHALL BE SEAL WELDED.

LEGEND	
	INSTALLATION BY CONSTRUCTION
	INSTALLATION BY PRODUCTION
	BALL VALVE

REFERENCE DRAWING	
ASSEMBLY AND DETAIL OF THERMOWELL	AB-036019

TYPICAL INSTALLATION DRAWING									
08	DEC94	ESSD CAB		REVISED NOTES & LIST OF MATERIALS.					
07	01-10-87	RLO		REDRAWN, REVISED, CHNG'D, DWG. SIZE FROM "A" TO "B" & ADDED TYP. INSTALL. DWG.					
REV. NO.	DATE	BY	JO/EWO	DESCRIPTION			CHKD.	CERT.	APPD.
SAUDI ARABIAN OIL COMPANY									
DRAWN BY <u>RG</u> CHECKED BY <u>RIL</u> SCALE <u>NONE</u>									
DATE STARTED <u>02-20-73</u> DATE COMPLETED _____									
OPR'G. DEPT. _____ ENG. DEPT. _____									
APP'D FOR CONSTR. _____									
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED					CERTIFIED _____ BY _____ DATE _____				
ON SHORE WELLHEAD									
COMPLETION FOR POWERED									
WATER INJECTION									
STD. DWG. METRIC									
PLANT NO.		INDEX		DRAWING NUMBER			SHT. NO.		REV. NO.
990		L		AB-036535			001		08