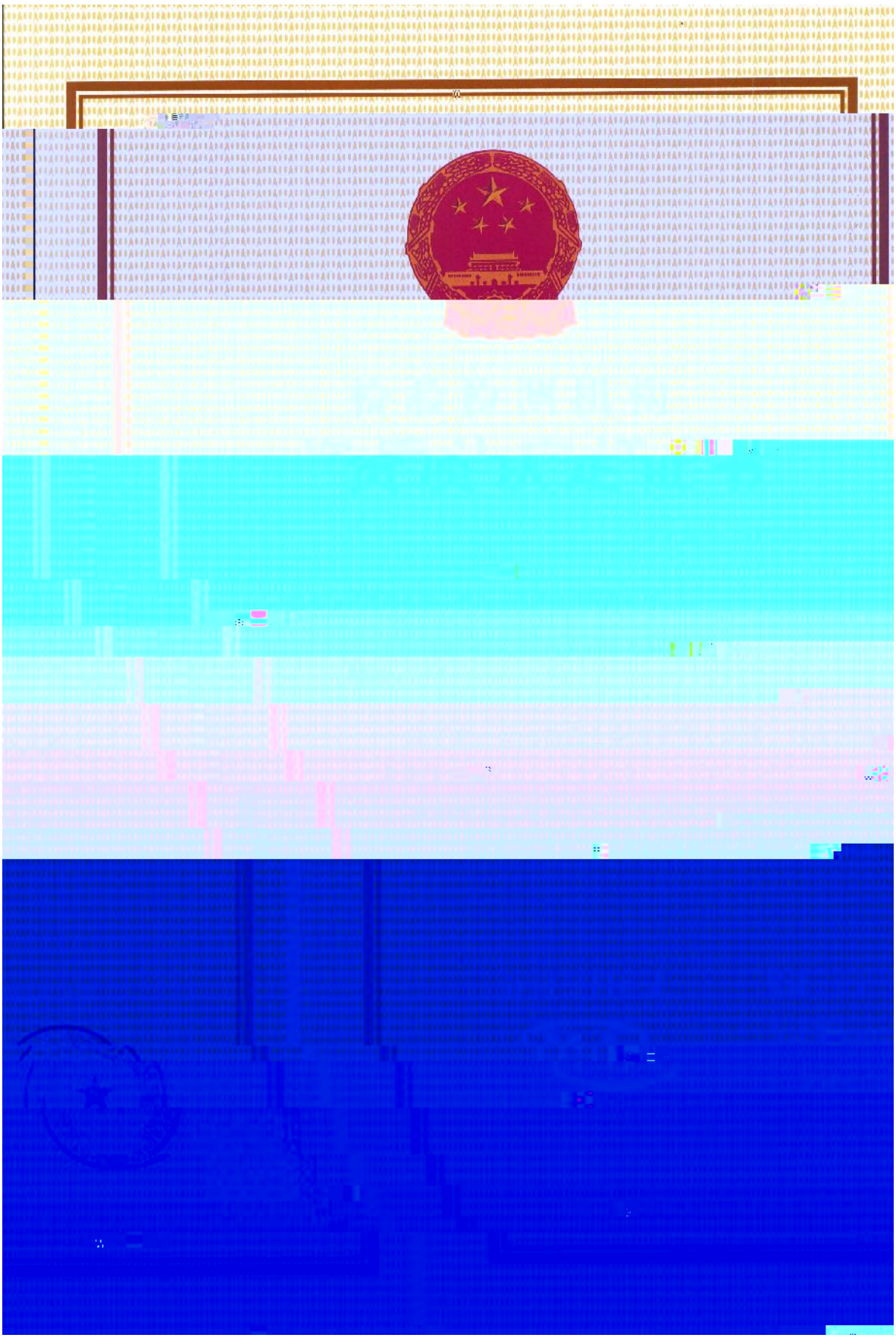

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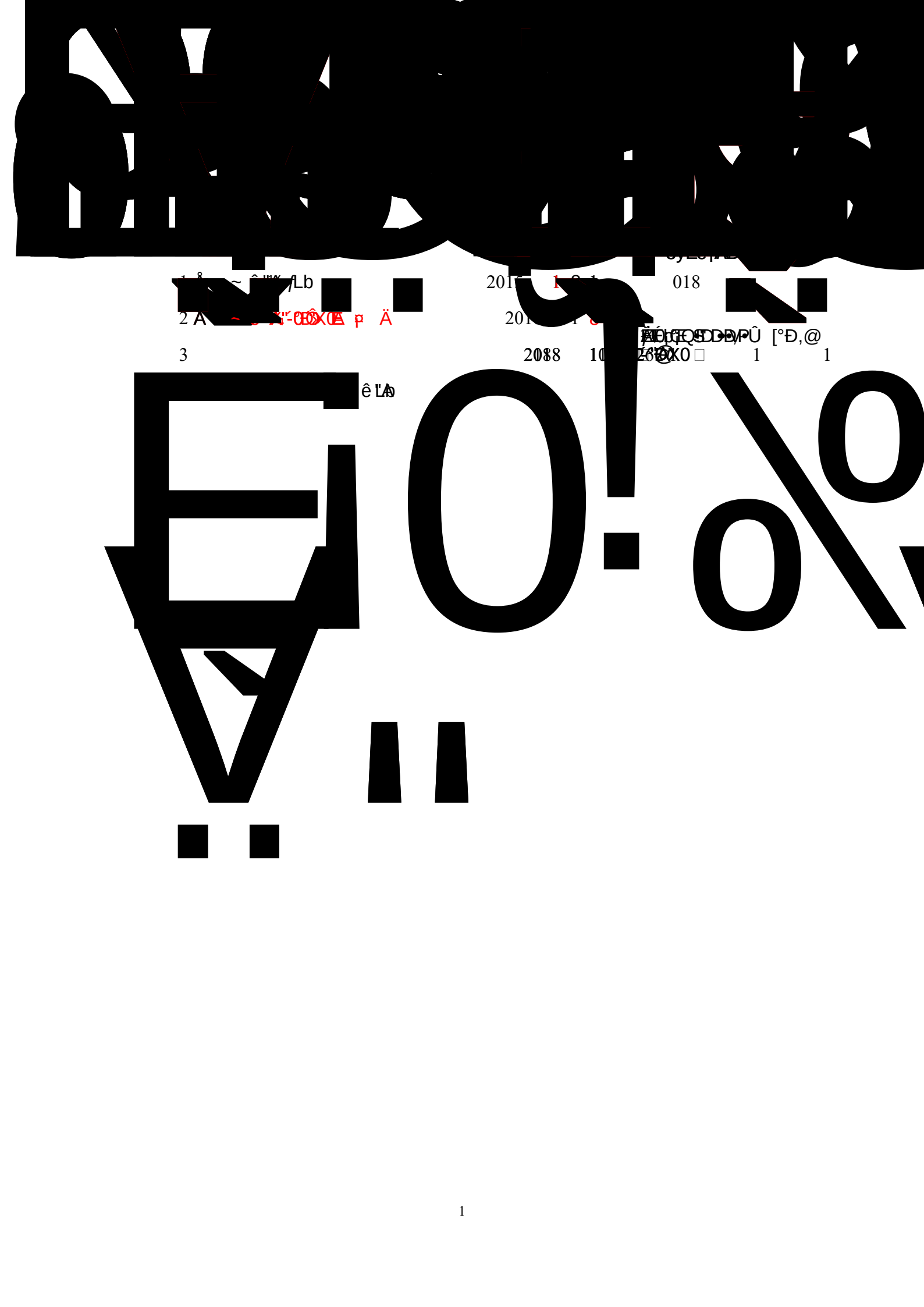

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8 DB65/ 3998-2017)

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3		5 6 27.56 12 21.76 10 5.1 -11 0.7	5 6 13.5 12 12.6 10 0.6 -11 0.3	/
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3		12 10 2013 10 12	12 10 10 12	
4		10-2 10321 10-3 10-4 10-5 10-6 10-7 10-8 12-10 12-12 12-13 12-14 12-14 12-15 12-16 12-1 12-3 12-2 12-4 12-5 12-6 12-7 12-8 12-9 AD20 759 P-10 P13-2 P-17 P-19 P-1 P-7	10321 10-3 10-4 10-5 10-6 10-8 12-12 12-13 12-14 12-14 12-16 12-1 12-2 12-4 12-5 12-6 12-7 12-8 12-9 AD20 759 P-10 P-19	
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	8	1	1	/
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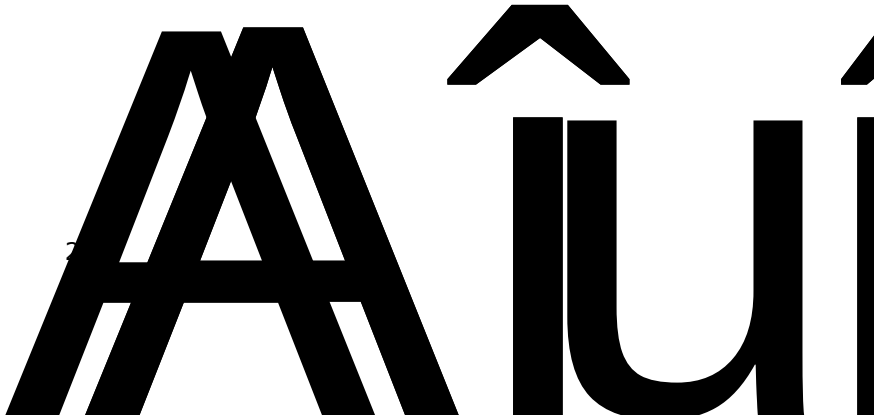

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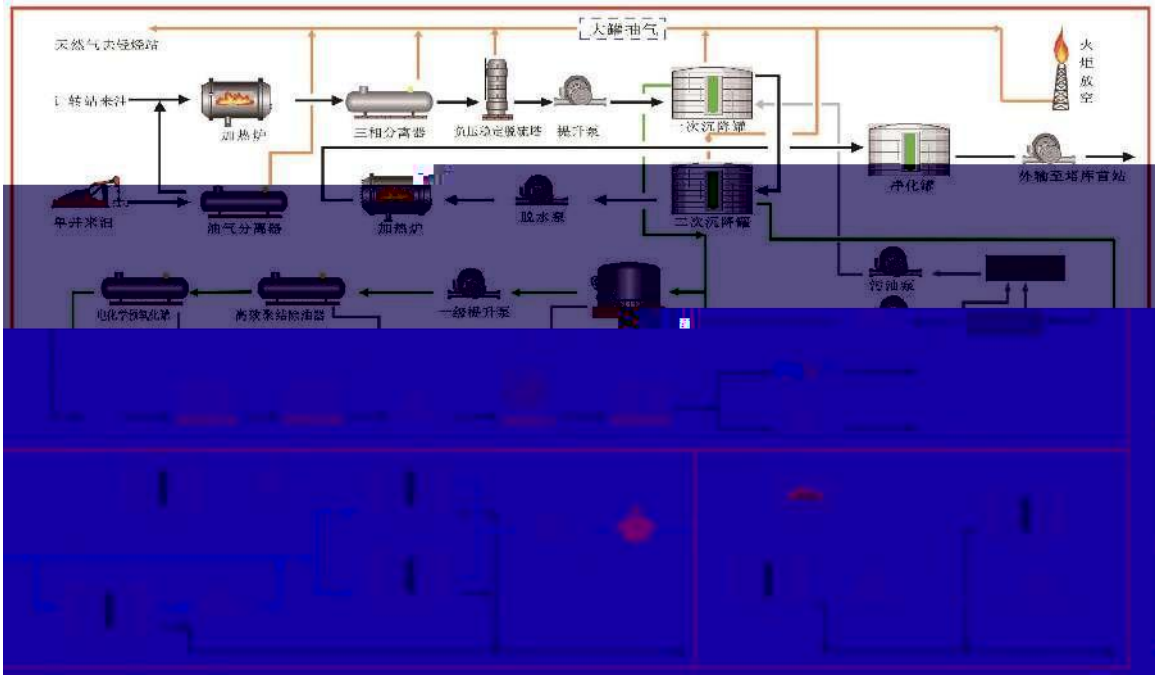

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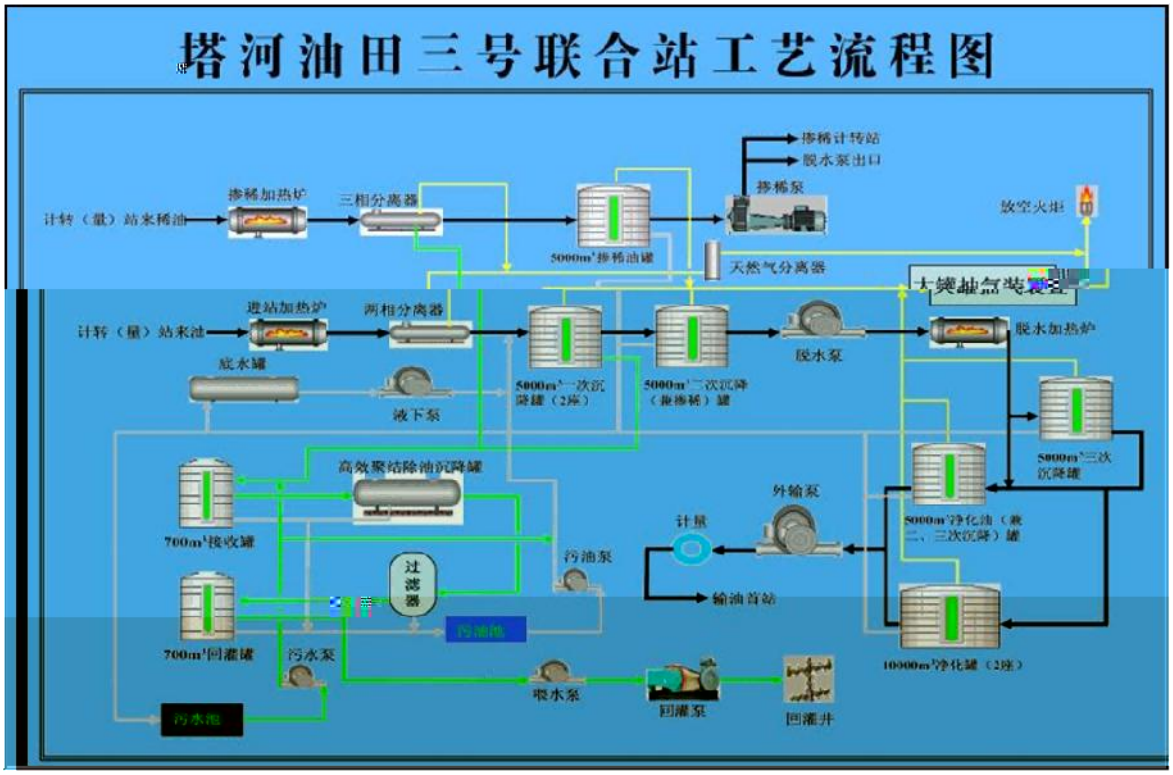
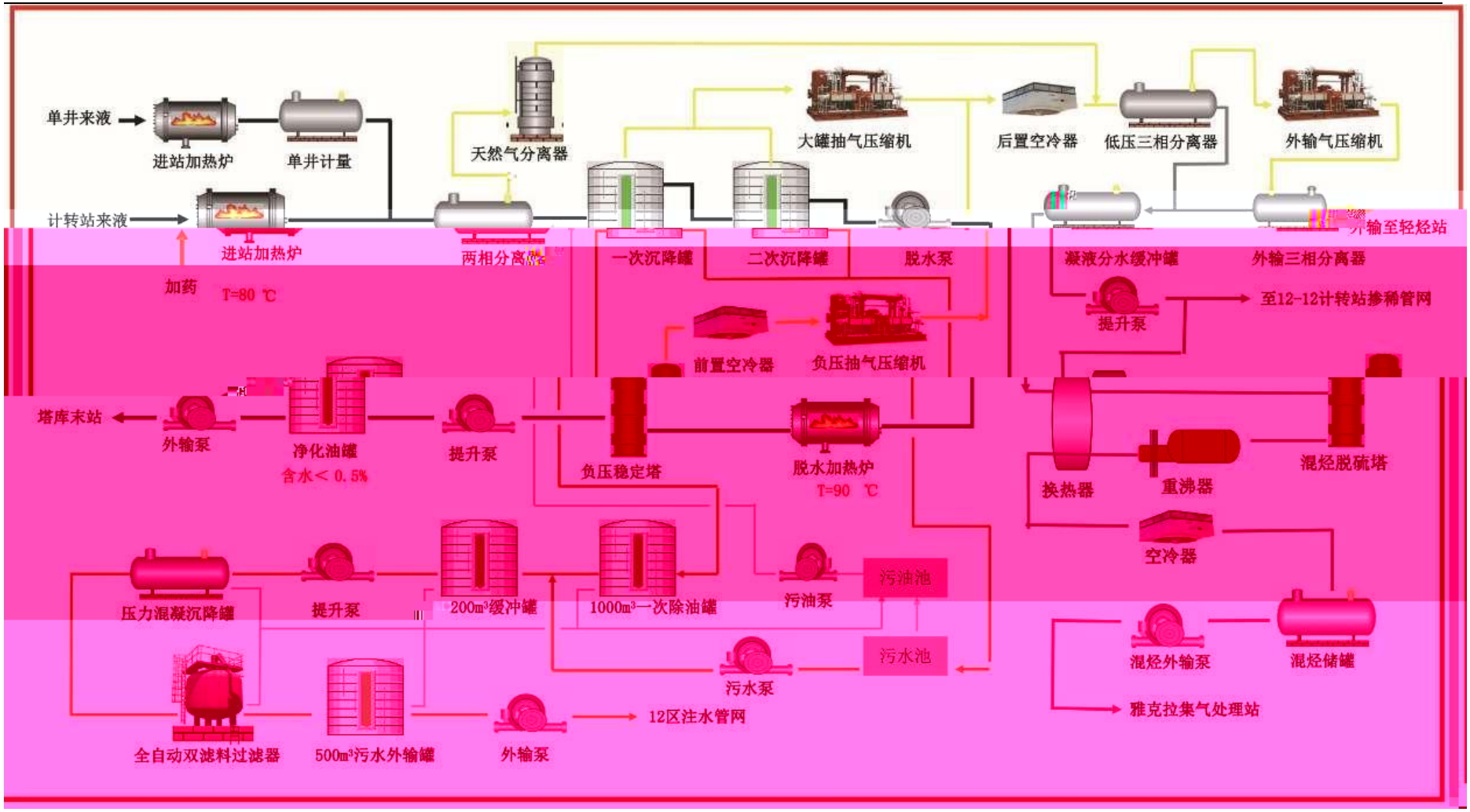

塔河油田三号联合站工艺流程图
掺稀计转站
脱水泵出口
掺稀泵
掺稀加热炉
三相分离器
计转（量）站来稀油
5000m³掺稀油罐
放空火炬
天然气分离器
进站加热炉
两相分离器
计转（量）站来油
脱水加热炉
脱水泵
底水罐
液下泵
5000m³一次沉降罐（2座）
5000m³二次沉降（兼掺稀）罐
5000m³三次沉降罐
高效聚结除油沉降罐
外输泵
700m³接收罐
计量
5000m³净化油（兼二、三次沉降）罐
污油泵
过滤器
输油首站
700m³回灌罐
污水泵
污水池
10000m³净化罐（2座）
吸水泵
回灌泵
回灌井

12

2.8-3


单井来液
进站加热炉
单井计量
天然气分离器
大罐抽气压缩机
后置空冷器
低压三相分离器
外输气压缩机
计转站来液
进站加热炉
两相分离器
一次沉降罐
二次沉降罐
脱水泵
凝液分水缓冲罐
外输三相分离器
外输至轻烃站
加药
T=80 ℃
提升泵
至12-12计转站掺稀管网
前置空冷器
负压抽气压缩机
塔库来站
外输泵
净化油罐
含水＜ 0.5%
提升泵
负压稳定塔
脱水加热炉
T=90 ℃
换热器
重沸器
混烃脱硫塔
空冷器
压力混凝沉降罐
提升泵
200m³缓冲罐
1000m³一次除油罐
污油泵
污油池
污水泵
污水池
混烃外输泵
混烃储罐
雅克拉集气处理站
全自动双滤料过滤器
500m³污水外输罐
外输泵
12区注水管网

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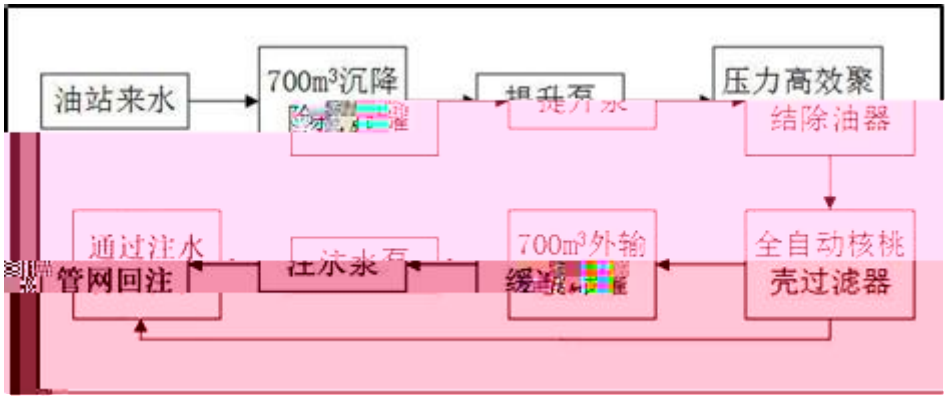

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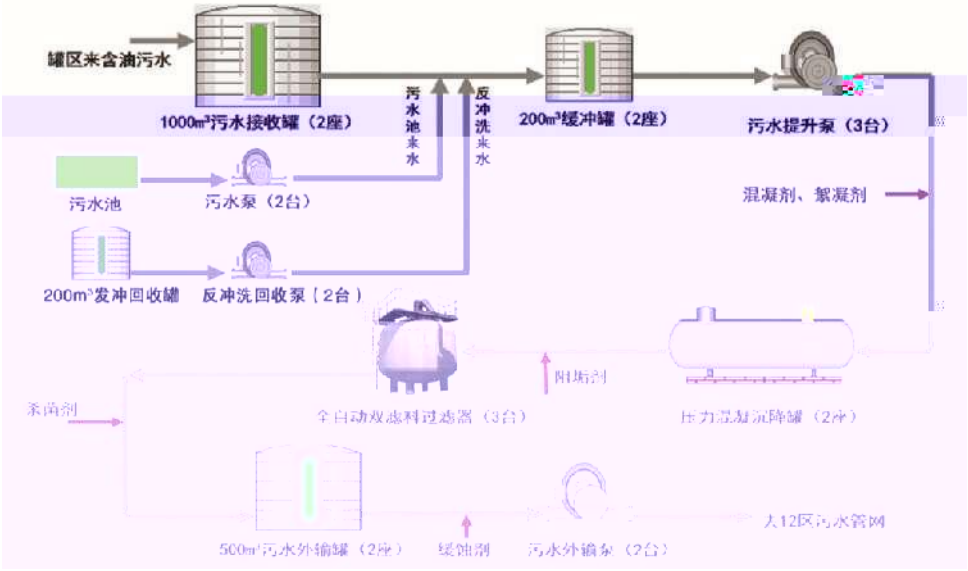

	3/	3/	3/	3/	
	5000-6000	4869	1131	937.85	
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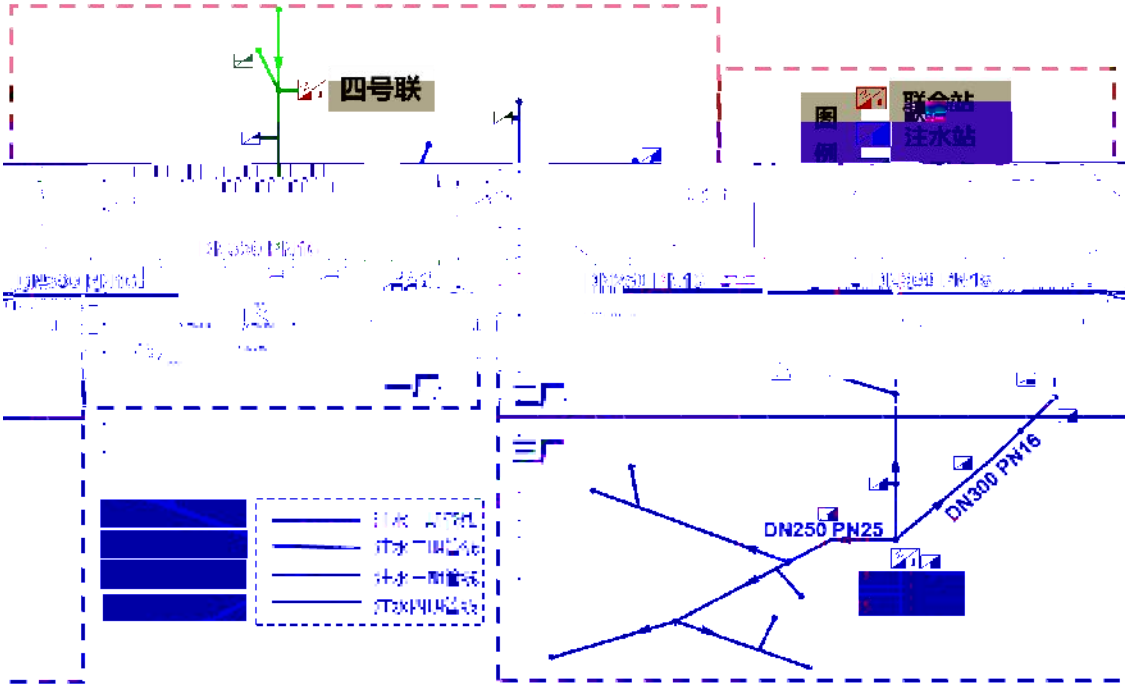

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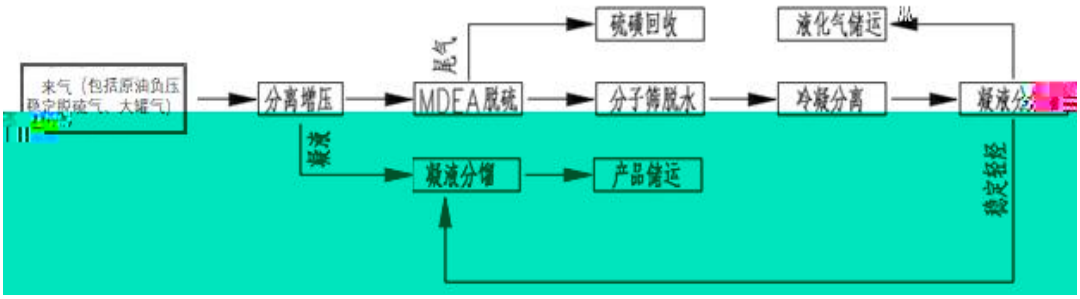

GB17820

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GB17820

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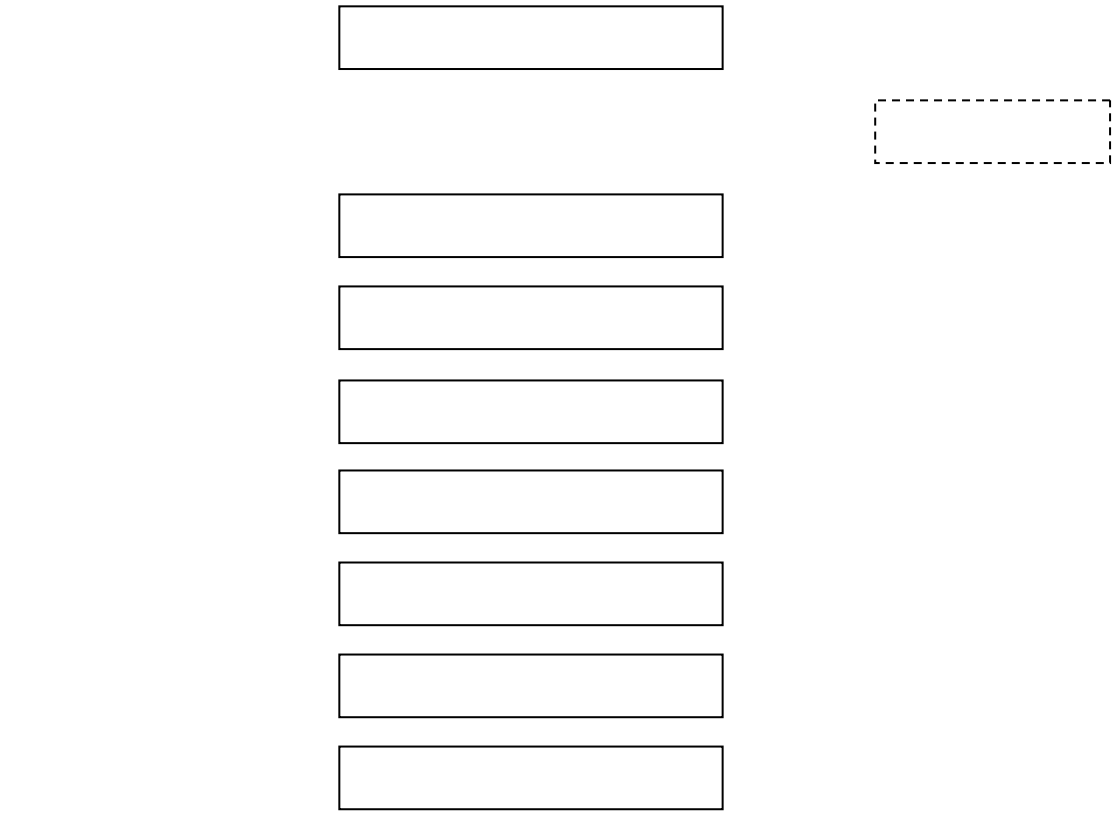

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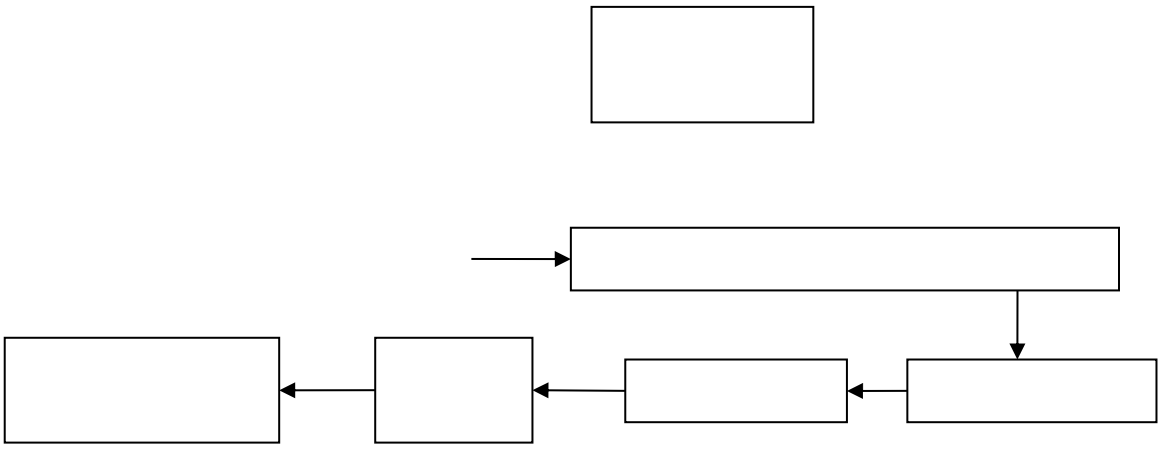

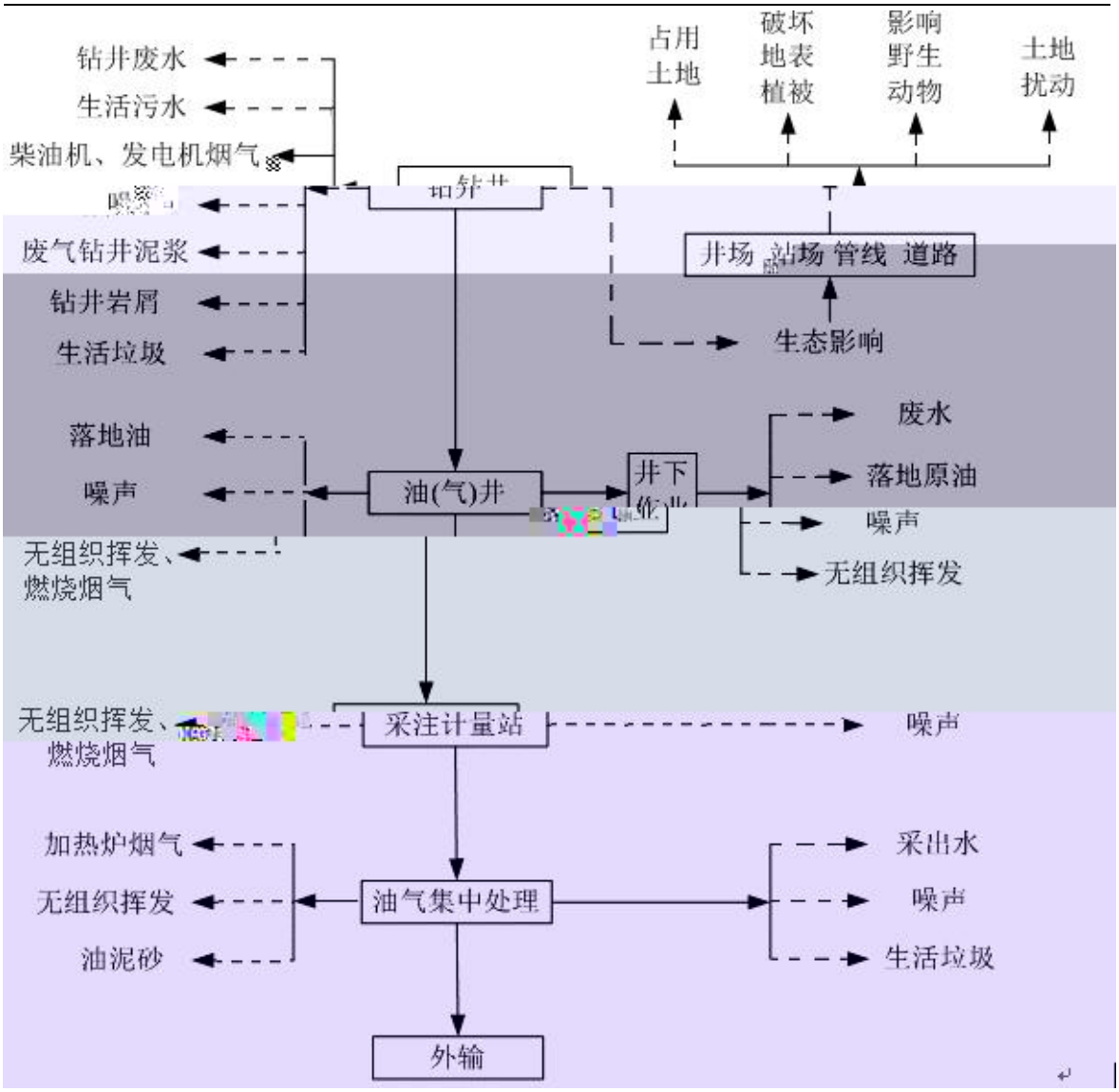
钻井废水
生活污水
柴油机、发电机烟气
废气钻井泥浆
钻井岩屑
生活垃圾
落地油
噪声
无组织挥发、燃烧烟气
占用土地
破坏地表植被
影响野生动物
土地扰动
井场 站场 管线 道路
生态影响
油(气)井
井下作业
废水
落地原油
噪声
无组织挥发
采注计量站
噪声
加热炉烟气
无组织挥发
油泥砂
油气集中处理
采出水
噪声
生活垃圾
外输

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DB65/ 3997-2017

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					KE1-3H 1.4	30 100		KE1-3H
3							GB/ 14848-2017	/
4				H12579 0 H12559-1			GB3838-2002	H12579
				P109-1				P109-1

30.68 23540 7.67%

19.2862 14869 7.71%

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□ □ □□ D □ □

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-11 24 62 F 48
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4 45 16
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5.6 20G DN100

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20.56 -11 59.07 4.404 -11 4.8
20G 20G DN125
DN125 DN100 DN100
DN75 DN100 DN75 DN100

7

0
116.477 12 103.186 10
140.97 12 121 10 19.97 5.391 -11 7.9 20G
20G D60 7 D60 7 133 14

8

198.71 12 122.32 10 110.977 12 102.966 10
20.56 -11 55.83 20# 5.391 -11 2.62 20#
48 4 48 4

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1 1000 12-9 1 1200 12-9
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2 400 10
200 100 2

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2		56.18 12 34.5 10 6.1 -11 15.58 10 LGJ-120	15.825 12 14.8 10 0.689 -11 0.336 10 LGJ-120	
3		5 6 27.56 12 21.76 10 5.1 -11 0.7	5 6 13.5 12 12.6 10 0.6 -11 0.3	
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23540 7.67%

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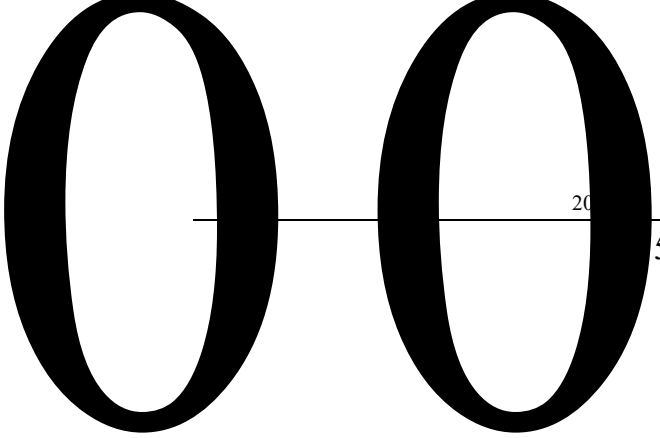

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2	12-4 12-9	1200	0	600 2	1200	0	600 2
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3	759 8 1	0	0	759	/	/	
4		0	1719440	214.93 8 146.57 204.31	0	582385	109.314 8 116.477

							110.977
5		130560	43520	21.76 5.8 5 6 2.0 20	67500	0	13.5 12 12.6 10 0.6 -11 0.3
6		0	264000	2400 ^{2}	0	10800	2400 ^{2}
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1			1 GB/ 22105.1-2008	0.002 /	AFS-11B HC-S 380
2			2 GB/ 22105.2-2008	0.01 /	AFS-933 HC-S 094
3			12 - HJ 803-2016	0.5 /	CAP RQ HC-S 251
4				2 /	
5				0.07 /	
6				2 /	
7			- HJ 1082-2019	0.5 /	AS-986 HC-S 090
8		C_{10} C_{40}	C_{10}-C_{40} HJ 1021-2019	6 /	A91 HC-S 356
9			/ - HJ 605-2011	1.3 /	GC8860-MSD5977B - HC-S 397
10				1.1 /	
11				1.0 /	
12		1,1-		1.2 /	

28				1.2 /	
29		1,2-		1.5 /	
30		1,4-		1.5 /	
31				1.2 /	
32				1.1 /	
33				1.3 /	
34		+		1.2 /	
35				1.2 /	
36				0.09 /	
37				0.1 /	
38		2-		0.06 /	
39			- HJ 834-2017	0.1 /	GC7890A-MS5975C - HC-S 115
40				0.1 /	
41				0.2 /	
42				0.1 /	

43				0.1 /	
44		,		0.1 /	
45		1,2,3,-		0.1 /	
46				0.09 /	
47		H	2 H (N / 1121.2-2006)	-	FE28 H HC-S 039
48			12 -	7 /	CAP RQ
49			HJ 803-2016	2 /	HC-S 251

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	/	ND	ND	ND	ND	ND	28000
1,2,3-	/	ND	ND	ND	ND	ND	500
	/	ND	ND	ND	ND	ND	430
	/	ND	ND	ND	ND	ND	4000

	/	ND	ND	ND	ND	ND	640000	
	/	ND	ND	ND	ND	ND	76000	
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	/	ND	ND	ND	ND	ND	15000	
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	/	ND	ND	ND	ND	ND	151000	
	/	ND	ND	ND	ND	ND	1293000	
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1,2,3,-	/	ND	ND	ND	ND	ND	15000	
	/	ND	ND	ND	ND	ND	70000	

C_{10} C_{40}	/	318	109	94	83	49	4500	
	/	11.1	7.60	8.87	7.02	10.0	60	
	/	0.12	0.17	0.10	0.14	0.20	65	

	/	ND	ND	ND	0.8	ND	5.7	
	/	12.8	30.7	11.9	22.6	163	18000	
	/	17	14	13	14	19	800	
	/	0.0228	0.0131	0.0126	0.0126	0.0815	38	
	/	30	42	18	31	38	900	
	/	ND	ND	ND	ND	ND	2800	
	/	ND	ND	ND	ND	ND	900	
	/	ND	ND	ND	ND	ND	37000	
1,1-	/	ND	ND	ND	ND	ND	9000	
1,2-	/	ND	ND	ND	ND	ND	5000	
1,1-	/	ND	ND	ND	ND	ND	66000	
-1,2-	/	ND	ND	ND	ND	ND	596000	
-1,2-	/	ND	ND	ND	ND	ND	54000	
	/	ND	ND	ND	ND	ND	616000	
1,2-	/	ND	ND	ND	ND	ND	5000	
1,1,1,2-	/	ND	ND	ND	ND	ND	10000	
1,1,2,2-	/	ND	ND	ND	ND	ND	6800	

	/	ND	ND	ND	ND	ND	53000	
1,1,1-	/	ND	ND	ND	ND	ND	840000	
1,1,2-	/	ND	ND	ND	ND	ND	2800	
	/	ND	ND	ND	ND	ND	28000	
1,2,3-	/	ND	ND	ND	ND	ND	500	
	/	ND	ND	ND	ND	ND	430	
	/	ND	ND	ND	ND	ND	4000	
	/	ND	ND	ND	ND	ND	270000	
1,2-	/	ND	ND	ND	ND	ND	560000	
1,4-	/	ND	ND	ND	ND	ND	20000	
	/	ND	ND	ND	ND	ND	28000	
	/	ND	ND	ND	ND	ND	1290000	
	/	ND	ND	ND	ND	ND	1200000	
+	/	ND	ND	ND	ND	ND	570000	
	/	ND	ND	ND	ND	ND	640000	
	/	ND	ND	ND	ND	ND	76000	
	/	ND	ND	ND	ND	ND	260000	

2-	/	ND	ND	ND	ND	ND	2256000	
	/	ND	ND	ND	ND	ND	15000	
	/	ND	ND	ND	ND	ND	1500	
	/	ND	ND	ND	ND	ND	15000	
	/	ND	ND	ND	ND	ND	151000	
	/	ND	ND	ND	ND	ND	1293000	
,	/	ND	ND	ND	ND	ND	1500	
1,2,3,-	/	ND	ND	ND	ND	ND	15000	
	/	ND	ND	ND	ND	ND	70000	

C_{10} C_{40}	/	65	77	74	171	90	4500
	/	7.33	14.8	4.48	8.08	7.21	60
	/	0.15	0.41	0.19	0.20	0.16	65
	/	0.8	ND	1.2	ND	ND	5.7
	/	23.3	41.5	12.2	25.8	22.0	18000
	/	15	34	13	16	14	800

	/	0.0128	0.0572	$9.11\ 10^{-3}$	0.0216	0.0109	38	
	/	28	35	17	31	28	900	
	/	ND	ND	ND	ND	ND	2800	
	/	ND	ND	ND	ND	ND	900	
	/	ND	ND	ND	ND	ND	37000	
1,1-	/	ND	ND	ND	ND	ND	9000	
1,2-	/	ND	ND	ND	ND	ND	5000	
1,1-	/	ND	ND	ND	ND	ND	66000	
-1,2-	/	ND	ND	ND	ND	ND	596000	
-1,2-	/	ND	ND	ND	ND	ND	54000	
	/	ND	ND	ND	ND	ND	616000	
1,2-	/	ND	ND	ND	ND	ND	5000	
1,1,1,2-	/	ND	ND	ND	ND	ND	10000	
1,1,2,2-	/	ND	ND	ND	ND	ND	6800	
	/	ND	ND	ND	ND	ND	53000	
1,1,1-	/	ND	ND	ND	ND	ND	840000	
1,1,2-	/	ND	ND	ND	ND	ND	2800	

	/	ND	ND	ND	ND	ND	28000	
1,2,3-	/	ND	ND	ND	ND	ND	500	
	/	ND	ND	ND	ND	ND	430	
	/	ND	ND	ND	ND	ND	4000	
	/	ND	ND	ND	ND	ND	270000	
1,2-	/	ND	ND	ND	ND	ND	560000	
1,4-	/	ND	ND	ND	ND	ND	20000	
	/	ND	ND	ND	ND	ND	28000	
	/	ND	ND	ND	ND	ND	1290000	
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	/	ND	ND	ND	ND	ND	15000	
	/	ND	ND	ND	ND	ND	1500	

	/	ND	ND	ND	ND	ND	15000	
	/	ND	ND	ND	ND	ND	151000	
	/	ND	ND	ND	ND	ND	1293000	
,	/	ND	ND	ND	ND	ND	1500	
1,2,3,-	/	ND	ND	ND	ND	ND	15000	
	/	ND	ND	ND	ND	ND	70000	

C_{10} C_{40}	/	79	46	96	66	24	4500	
	/	6.76	6.14	7.20	7.67	12.5	60	
	/	0.17	0.11	0.14	0.18	0.48	65	
	/	ND	ND	ND	ND	ND	5.7	
	/	41.1	21.1	24.1	26.3	19.9	18000	
	/	14	10	13	15	32	800	
	/	0.0173	8.38 10^{-3}	0.0154	0.0105	0.0241	38	
	/	30	28	29	34	21	900	
	/	ND	ND	ND	ND	ND	2800	

	/	ND	ND	ND	ND	ND	900
	/	ND	ND	ND	ND	ND	37000
1,1-	/	ND	ND	ND	ND	ND	9000
1,2-	/	ND	ND	ND	ND	ND	5000
1,1-	/	ND	ND	ND	ND	ND	66000
-1,2-	/	ND	ND	ND	ND	ND	5/ □ □ □# □N

,	/	ND	ND	ND	ND	ND	1500	
1,2,3,-	/	ND	ND	1 3	ND	ND	ND	1500	
	/	ND	ND		ND	ND	ND	700	

1,2-	/	ND	ND	ND	ND	5000	
1,1-	/	ND	ND	ND	ND	66000	
-1,2-	/	ND	ND	ND	ND	596000	
-1,2-	/	ND	ND	ND	ND	54000	
	/	ND	ND	ND	ND	616000	
1,2-	/	ND	ND	ND	ND	5000	
1,1,1,2-	/	ND	ND	ND	ND	10000	
1,1,2,2-	/	ND	ND	ND	ND	6800	
	/	ND	ND	ND	ND	53000	
1,1,1-	/	ND	ND	ND	ND	840000	
1,1,2-	/	ND	ND	ND	ND	2800	
	/	ND	ND	ND	ND	28000	
1,2,3-	/	ND	ND	ND	ND	500	
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+	/	ND	ND	ND	ND	570000	
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	/	ND	ND	ND	ND	76000	
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			C_{10} C_{40}		
12-9	10	2023.11.27	84		
	20		115		
	30		65		
	50		82		
H121155	10	2023.11.26	70		
	20		149		
	30		60		
	50		82		
H12553CH	10	2023.11.29	70		
	20		60		
	30		70		
	50		65		
H121156	10	2023.11.28	75		
	20		62		
	30		62		
	50		83		
H12576	10	2023.11.30	75		
	20		54		
	30		65		
	50		91		
H123134	10	2023.11.30	97		
	20		88		
	30		162		
	50		151		
H12472	10	2023.12.02	98		
	20		97		
	30		68		
	50		75	4500	

			C_{10} C_{40}		
H12223CH	10	2023.12.02	82		
	20		94		
	30		96		
	50		108		
H12580	10	2023.12.04	99		
	20		75		
	30		199		
	50		103		
H10396H	10	2023.12.06	91		
	20		79		
	30		76		
	50		43		
H122100	10	2023.12.07	46		
	20		65		
	30		60		
	50		65		
H10258CH	10	2023.12.09	18		
	20		32		
	30		27		
	50		32		
P1101 CH	10	2023.12.12	27		
	20		33		
	30		32		
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S108	10	2023.12.12	45		
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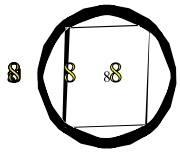
	50		30		



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		H		8.88	-	/
			/	0.25	0.8	
			/	0.0129	3.4	
			/	10.4	25	
			/	18	170	
H80386H	2023.12.09		/	48	250	
			/	20.0	100	
			/	37	190	
			/	67	300	
		C_{10} C_{40}	/	37	4500	

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/	H122103 12-4 12-9 H12480 H12472 4			

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GB/ 16157-1996/ G1-2017

GB/ 11605-2005

1	HJ836-2017	1.0 / 3	MS105 HC-S 045
2	HJ1131-2020	2 / 3	3023 HC-S 508 MH3200 HC-S 308
3	HJ1132-2020	2 / 3	3023 2B04010046)

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/	H122103 12-4 12-9 H12472 1 4			0.06 / 3

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HJ/ 55-2000

1			- HJ 604-2017	0.06 /	GC-4000A HC-S 107
2			GB 11742-1989	0.005 /	722N HC-S 180

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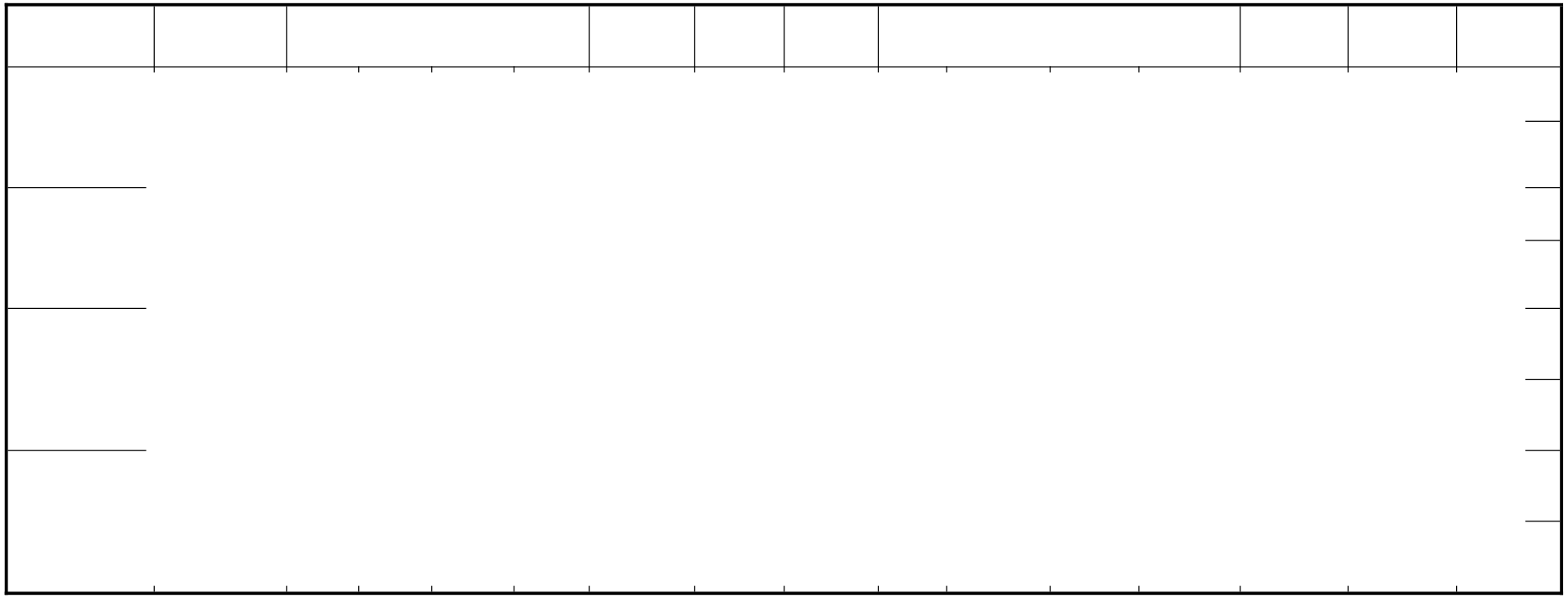

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3		4 11.1 GB/ 5750.4-2023	-	AL204 HC-S 031
4		HJ/ 342-2007	8 /L	723N HC-S 052
5		GB 11896-1989	-	-
6		65 HJ 700-2014	0.82 /L	ICAP RQ HC-S 251
7		65 HJ 700-2014	0.12 /L	ICAP RQ HC-S 251
8		4- HJ 503-2009	0.0003 /L	723N HC-S 052
9		GB 11892-1989	0.5 /L	-
10		HJ 535-2009	0.025 /L	723N HC-S 052
11		GB 7493-1987	0.003 /L	723N HC-S 052
12		HJ/ 346-2007	0.08 /L	-1901 HC-S 124
13		5 7.1 - GB/ 5750.5-2023	0.002 /L	723N HC-S 052
14		GB 7484-1987	0.05 /L	P SJ-216 HC-S 205
15		HJ 694-2014	0.04 /L	AFS-11B HC-S 380
16		HJ 694-2014	0.3 /L	AFS-933 HC-S 094
17		65 HJ 700-2014	0.05 /L	ICAP RQ HC-S 251
18		GB 7467-1987	0.004 /L	723N HC-S 052

		65		ICAP RQ
19			0.09 /L	
		HJ 700-2014		HC-S 251
				-1901
20			0.01 /L	
		H 970-2018		HC-S 124
				AS-986 H
21			0.05 /L	
		GB 11904-1989		HC-S 090
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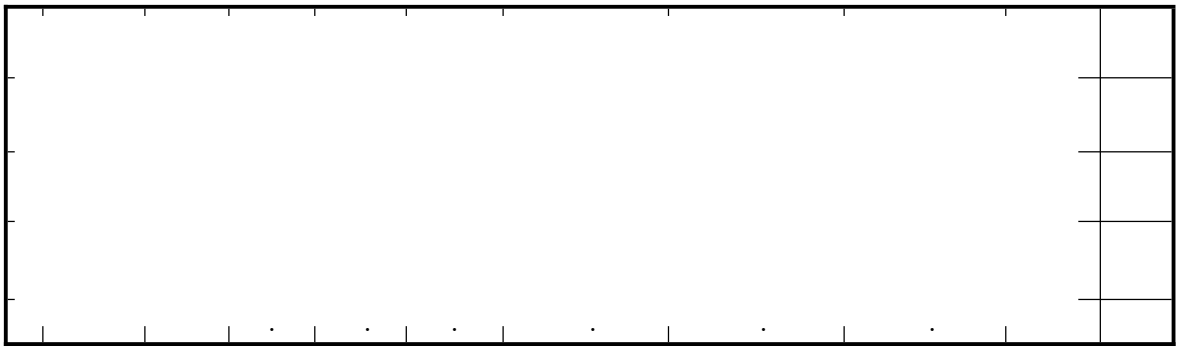

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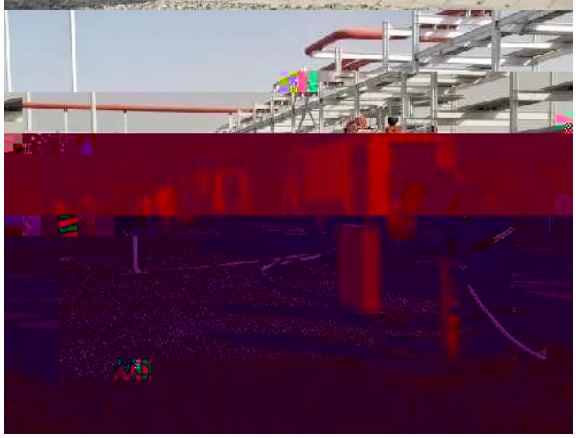

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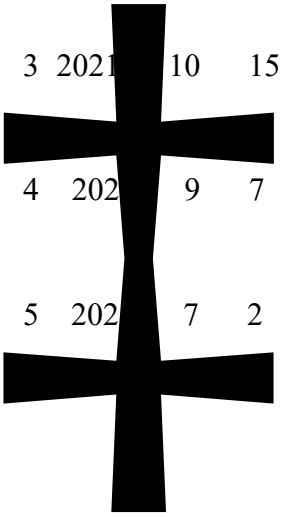

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3	H10274	91650000742248144Q077			5	2023	02	14
4	P33	91650000742248144Q081			9	2023	02	28
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6	H121152	91650000742248144Q051	12-4	1		2022	05	11
7	H122103 H121165 H12116-							

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15	H12479 H123136	91650000742248144Q071	12-9 1	2021 12 13
16	H122100 H123138	91650000742248144Q117	12-12 3	2023 06 22

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