

SOUTHERN PARS 1 CONDENSATE

TABLE 1: CONDENSATE GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.7384	ASTM D4052
API Gravity	°API	60.1	ASTM D4052
Sulfur Content (Total)	wt.%	0.25	ASTM D4294
H ₂ S Content	ppm	3	UOP 163
Mercaptan Content	wt.%	0.13	UOP 163
Nitrogen Content (Total)	ppm	<10	ASTM D4629
Water Content	ppm	<0.025	ASTM D4006
Salt Content	P.T.B	<1	ASTM D3230
PONA Analysis:			
*Saturate	vol.%	88.9	ASTM D1319
Olefins	vol.%	0.8	
Aromatics	vol.%	10.3	
Kinematic Viscosity @ 0 °C	mm ² /s	1.097	ASTM D445
Kinematic Viscosity @ 10 °C	mm ² /s	0.984	
Kinematic Viscosity @ 20 °C	mm ² /s	0.836	
Cloud Point	°C	-30	ASTM D2500
Pour Point (Upper)	°C	<-45	ASTM D97
Reid Vapor Pressure	psi	9.70	ASTM D5191
Wax Content	wt.%	0.30	BP 237
Corrosion Copper Strip (3h/50°C)	---	1b	ASTM D130
Total Acid Number	mg KOH/g	0.10	ASTM D 664
Aniline Point	°C	60	IP2
Molecular Weight	g/mol	124	Osmomat
Saybolt Color	---	22.5	ASTM D156
Bromine Index	mgBr ₂ /100g	867	IP 130
Lead Content	mg/kg	<1	ASTM D 5863

*S: Saturate= Paraffin+Naphthene

Sampling Date: 17 Mordad 1394 (08 Aug. 2015)

Report Date: 24 Shahrivar 1394 (15 Sep. 2015)



NATIONAL IRANIAN OIL COMPANY (NIOC)
 RESEARCH INSTITUTE OF PETROLEUM INDUSTRY (RIPI)
 CRUDE OIL AND PETROLEUM PRODUCTS EVALUATION DEPARTMENT

SOUTHERN PARS 1 CONDENSATE

TABLE 2: TBP DISTILLATION ANALYSIS (ASTM D2892)

Frac. No.	Boiling Range, °C	Yield, wt.%	Cumulative Yield, wt.%	Sp.Gr. @ 15.56/15.56 °C	Yield, vol.%	Cumulative Yield, vol.%
1	IBP-15	4.37	4.37	0.5846	5.52	5.52
2	15-65	15.33	19.70	0.6442	17.57	23.09
3	65-100	18.70	38.40	0.7231	19.10	42.19
4	100-125	11.94	50.34	0.7445	11.84	54.03
5	125-150	10.60	60.94	0.7642	10.24	64.27
6	150-175	9.30	70.24	0.7782	8.82	73.09
7	175-200	7.35	77.59	0.7875	6.89	79.98
8	200-225	6.10	83.69	0.8015	5.62	85.60
9	225-250	4.97	88.66	0.8188	4.48	90.08
10	250-275	3.38	92.04	0.8290	3.01	93.09
11	275-300	2.46	94.50	0.8351	2.18	95.27
12	300-325	2.06	96.56	0.8545	1.78	97.05
13	325+	3.44	100.00	0.8610	2.95	100.00



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SOUTHERN PARS (2 & 3) CONDENSATE

TABLE 1: CONDENSATE GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.7371	ASTM D4052
API Gravity	°API	60.5	ASTM D4052
Sulfur Content (Total)	wt.%	0.28	ASTM D4294
H ₂ S Content	ppm	<1	UOP 163
Mercaptan Content	wt.%	0.21	UOP 163
Nitrogen Content (Total)	ppm	<10	ASTM D4629
Water Content	ppm	<0.025	ASTM D4006
Salt Content	P.T.B	<1	ASTM D3230
PONA Analysis:			
*Saturate	vol.%	90.0	ASTM D1319
Olefins	vol.%	1.0	
Aromatics	vol.%	9.0	
Kinematic Viscosity @ 0 °C	mm ² /s	1.114	ASTM D445
Kinematic Viscosity @ 10 °C	mm ² /s	0.955	
Kinematic Viscosity @ 20 °C	mm ² /s	0.830	
Cloud Point	°C	-30	ASTM D2500
Pour Point (Upper)	°C	<-45	ASTM D97
Reid Vapor Pressure	psi	9.50	ASTM D6191
Wax Content	wt.%	0.50	BP 237
Corrosion Copper Strip (3h/50°C)	---	1b	ASTM D130
Total Acid Number	mg KOH/g	0.06	ASTM D 664
Aniline Point	°C	60	IP2
Molecular Weight	g/mol	125	Osmomat
Saybolt Color	---	22.6	ASTM D156
Bromine Index	mgBr ₂ /100g	951	IP 130
Lead Content	mg/kg	<1	ASTM D 5863

*S: Saturate= Paraffin+Naphthene

Sampling Date: 17 Mordad 1394 (08 Aug. 2015)

Report Date: 18 Shahrivar 1394 (09 Sep. 2015)



NATIONAL IRANIAN OIL COMPANY (NIOC)
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SOUTHERN PARS (2 & 3) CONDENSATE

TABLE 2: TBP DISTILLATION ANALYSIS (ASTM D2892)

Frac. No.	Boiling Range, °C	Yield, wt.%	Cumulative Yield, wt.%	Sp.Gr. @ 15.56/15.56 °C	Yield, vol.%	Cumulative Yield, vol.%
1	IBP-15	2.84	2.84	0.5801	3.61	3.61
2	15-65	16.26	19.10	0.6433	18.63	22.24
3	65-100	19.32	38.42	0.7159	19.89	42.13
4	100-125	11.07	49.49	0.7427	10.99	53.12
5	125-150	9.99	59.48	0.7561	9.74	62.86
6	150-175	8.79	68.27	0.7742	8.37	71.23
7	175-200	7.41	75.68	0.7845	6.96	78.19
8	200-225	6.52	82.20	0.7957	6.04	84.23
9	225-250	5.02	87.22	0.8081	4.58	88.81
10	250-275	3.55	90.77	0.8179	3.20	92.01
11	275-300	2.73	93.50	0.8363	2.41	94.42
12	300-325	2.60	96.10	0.8415	2.28	96.70
13	325-350	2.22	98.32	0.8567	1.91	98.61
14	350+	1.68	100.00	0.8909	1.39	100.00



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SOUTHERN PARS (4&5) CONDENSATE

TABLE 1: CONDENSATE GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.7350	ASTM D4052
API Gravity	°API	61.0	ASTM D4052
Sulfur Content (Total)	wt.%	0.29	ASTM D4294
H ₂ S Content	ppm	<1	UOP 163
Mercaptan Content	wt.%	0.13	UOP 163
Nitrogen Content (Total)	ppm	<10	ASTM D4629
Water Content	ppm	<0.025	ASTM D4006
Salt Content	P.T.B	<1	ASTM D3230
PONA Analysis:			
*Saturate	vol.%	88.70	ASTM D1319
Olefins	vol.%	0.80	
Aromatics	vol.%	10.50	
Kinematic Viscosity @ 0 °C	mm ² /s	1.091	ASTM D445
Kinematic Viscosity @ 10 °C	mm ² /s	0.907	
Kinematic Viscosity @ 20 °C	mm ² /s	0.814	
Cloud Point	°C	<-30	ASTM D2500
Pour Point (Upper)	°C	<-45	ASTM D97
Reid Vapor Pressure	psi	9.90	ASTM D5191
Wax Content	wt.%	0.60	BP 237
Corrosion Copper Strip (3h/50°C)	---	1b	ASTM D130
Total Acid Number	mg KOH/g	0.04	ASTM D 664
Aniline Point	°C	60	IP2
Molecular Weight	g/mol	135	Osmomat
Saybolt Color	---	30	ASTM D156
Bromine Index	mgBr ₂ /100g	887	IP 130
Lead Content	mg/kg	<1	ASTM D 5863

*S: Saturate= Paraffin+Naphthene

Sampling Date: 19 Mordad 1394 (10 Aug. 2015)
Report Date: 08 Mehr 1394 (30 Sep. 2015)



NATIONAL IRANIAN OIL COMPANY (NIOC)
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SOUTHERN PARS (4&5) CONDENSATE

TABLE 2: TBP DISTILLATION ANALYSIS (ASTM D2892)

Frac. No.	Boiling Range, °C	Yield, wt.%	Cumulative Yield, wt.%	Sp.Gr. @ 15.56/15.56 °C	Yield, vol.%	Cumulative Yield, vol.%
1	IBP-15	3.81	3.81	0.5843	4.79	4.79
2	15-65	16.65	20.46	0.6405	19.11	23.90
3	65-100	17.79	38.25	0.7158	18.27	42.17
4	100-125	12.19	50.44	0.7435	12.05	54.22
5	125-150	9.76	60.20	0.7645	9.38	63.60
6	150-175	8.60	68.80	0.7757	8.15	71.75
7	175-200	7.68	76.48	0.7860	7.18	78.93
8	200-225	6.02	82.50	0.7983	5.54	84.47
9	225-250	4.73	87.23	0.8060	4.31	88.78
10	250-275	3.70	90.93	0.8214	3.31	92.09
11	275-300	3.20	94.13	0.8267	2.85	94.94
12	300-325	2.07	96.20	0.8260	1.84	96.78
13	325-350	1.70	97.90	0.8447	1.48	98.26
14	350+	2.10	100.00	0.8871	1.74	100.00



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SOUTHERN PARS (6 & 7 & 8) CONDENSATE

TABLE 1: CONDENSATE GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.7386	ASTM D4052
API Gravity	°API	60.1	ASTM D4052
Sulfur Content (Total)	wt.%	0.22	ASTM D4294
H ₂ S Content	ppm	<1	UOP 163
Mercaptan Content	wt.%	0.15	UOP 163
Nitrogen Content (Total)	ppm	<10	ASTM D4629
Water Content	ppm	<0.025	ASTM D4006
Salt Content	P.T.B	<1	ASTM D3230
PONA Analysis:			
*Saturate	vol.%	86.8	ASTM D1319
Olefins	vol.%	3.5	
Aromatics	vol.%	9.7	
Kinematic Viscosity @ 0 °C	mm ² /s	1.122	ASTM D445
Kinematic Viscosity @ 10 °C	mm ² /s	0.994	
Kinematic Viscosity @ 20 °C	mm ² /s	0.839	
Cloud Point	°C	-30	ASTM D2500
Pour Point (Upper)	°C	<-45	ASTM D97
Reid Vapor Pressure	psi	10.15	ASTM D5191
Wax Content	wt.%	0.6	BP 237
Corrosion Copper Strip (3h/50°C)	---	1b	ASTM D130
Total Acid Number	mg KOH/g	0.09	ASTM D 664
Aniline Point	°C	60	IP2
Molecular Weight	g/mol	136	Osmomat
Saybolt Color	---	22.4	ASTM D156
Bromine Index	mgBr ₂ /100g	647	IP 130
Lead Content	mg/kg	<1	ASTM D 5863

*S: Saturate= Paraffin+Naphthene

Sampling Date: 19 Mordad 1394 (10 Agu. 2015)

Report Date: 22 Mehr 1394 (14 Oct. 2015)



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SOUTHERN PARS (6 & 7 & 8) CONDENSATE

TABLE 2: TBP DISTILLATION ANALYSIS (ASTM D2892)

Frac. No.	Boiling Range, °C	Yield, wt.%	Cumulative Yield, wt.%	Sp.Gr. @ 15.56/15.56 °C	Yield, vol.%	Cumulative Yield, vol.%
1	IBP-15	4.02	4.02	0.5812	5.11	5.11
2	15-65	15.87	19.89	0.6421	18.25	23.36
3	65-100	16.13	36.02	0.7183	16.58	39.94
4	100-125	11.89	47.91	0.7442	11.80	51.74
5	125-150	9.64	57.55	0.7642	9.31	61.05
6	150-175	7.94	65.49	0.7755	7.56	68.61
7	175-200	7.28	72.77	0.7868	6.83	75.44
8	200-225	6.62	79.39	0.7928	6.17	81.61
9	225-250	5.96	85.35	0.8062	5.46	87.07
10	250-275	4.34	89.69	0.8192	3.91	90.98
11	275-300	3.08	92.77	0.8277	2.75	93.73
12	300-325	2.72	95.49	0.8357	2.40	96.13
13	325-350	2.07	97.56	0.8435	1.81	97.94
14	350+	2.44	100.00	0.8748	2.06	100.00



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SOUTHERN PARS 9 & 10 CONDENSATE

TABLE 1: CONDENSATE GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.7415	ASTM D4052
API Gravity	°API	59.3	ASTM D4052
Sulfur Content (Total)	wt.%	0.19	ASTM D4294
H ₂ S Content	ppm	2	UOP 163
Mercaptan Content	wt.%	0.12	UOP 163
Nitrogen Content (Total)	ppm	<10	ASTM D4629
Water Content	ppm	<0.025	ASTM D4006
Salt Content	P.T.B	<1	ASTM D3230
PONA Analysis:			
*Saturate	vol.%	87.2	ASTM D1319
Olefins	vol.%	1.6	
Aromatics	vol.%	11.2	
Kinematic Viscosity @ 0 °C	mm ² /s	1.190	ASTM D445
Kinematic Viscosity @ 10 °C	mm ² /s	1.044	
Kinematic Viscosity @ 20 °C	mm ² /s	0.916	
Cloud Point	°C	-30	ASTM D2500
Pour Point (Upper)	°C	<-45	ASTM D97
Reid Vapor Pressure	psi	9.10	ASTM D5191
Wax Content	wt.%	0.70	BP 237
Corrosion Copper Strip (3h/50°C)	---	1b	ASTM D130
Total Acid Number	mg KOH/g	0.09	ASTM D 664
Aniline Point	°C	62	IP2
Molecular Weight	g/mol	135	Osmomat
Saybolt Color	---	21.5	ASTM D156
Bromine Index	mgBr ₂ /100g	650	IP 130
Lead Content	mg/kg	<1	ASTM D 5863

*S: Saturate= Paraffin+Naphthene

Sampling Date: 19 Mordad 1394 (10 Aug. 2015)

Report Date: 26 Mehr 1394 (18 Oct. 2015)



NATIONAL IRANIAN OIL COMPANY (NIOC)
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CRUDE OIL AND PETROLEUM PRODUCTS EVALUATION DEPARTMENT

SOUTHERN PARS 9 &10 CONDENSATE

TABLE 2: TBP DISTILLATION ANALYSIS (ASTM D2892)

Frac. No.	Boiling Range, °C	Yield, wt.%	Cumulative Yield, wt.%	Sp.Gr. @ 15.56/15.56 °C	Yield, vol.%	Cumulative Yield, vol.%
1	IBP-15	3.65	3.65	0.5888	4.60	4.60
2	15-65	14.60	18.25	0.6398	16.90	21.50
3	65-100	17.02	35.27	0.7130	17.70	39.20
4	100-125	10.02	45.29	0.7430	10.00	49.20
5	125-150	10.38	55.67	0.7643	10.07	59.27
6	150-175	9.05	64.72	0.7758	8.65	67.92
7	175-200	7.04	71.76	0.7860	6.64	74.56
8	200-225	6.70	78.46	0.7949	6.25	80.81
9	225-250	5.88	84.34	0.8040	5.42	86.23
10	250-275	4.68	89.02	0.8183	4.24	90.47
11	275-300	3.32	92.34	0.8280	2.97	93.44
12	300-325	3.18	95.52	0.8379	2.81	96.25
13	325-350	2.17	97.69	0.8437	1.91	98.16
14	350+	2.31	100.00	0.9309	1.84	100.00



NATIONAL IRANIAN OIL COMPANY (NIOC)
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SOUTHERN PARS 12 CONDENSATE

TABLE 1: CONDENSATE GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.7440	ASTM D4052
API Gravity	°API	58.7	ASTM D4052
Sulfur Content (Total)	wt.%	0.15	ASTM D4294
H ₂ S Content	ppm	4.0	UOP 163
Mercaptan Content	ppm	1013	UOP 163
Nitrogen Content (Total)	ppm	<10	ASTM D4629
Water Content	ppm	<0.025	ASTM D4006
Salt Content	P.T.B	<1	ASTM D3230
PONA Analysis:			
*Saturate	vol.%	89.0	ASTM D1319
Olefins	vol.%	1.0	
Aromatics	vol.%	10.0	
Kinematic Viscosity @ 0 °C	mm ² /s	1.092	ASTM D445
Kinematic Viscosity @ 10 °C	mm ² /s	0.908	
Kinematic Viscosity @ 20 °C	mm ² /s	0.814	
Cloud Point	°C	<-45	ASTM D2500
Pour Point (Upper)	°C	<-45	ASTM D97
Reid Vapor Pressure	psi	11.0	ASTM D5191
Wax Content	wt.%	0.7	BP 237
Corrosion Copper Strip (3h/50°C)	---	1b	ASTM D130
Total Acid Number	mg KOH/g	0.1	ASTM D 664
Aniline Point	°C	61	IP2
Molecular Weight	g/mol	138	Osmomat
Saybolt Color	---	16.4	ASTM D156
Bromine Index	mgBr ₂ /100g	870	IP 130
Lead Content	mg/kg	<1	ASTM D 5863
Mercury Content	Mass-ppb	0.9	UOP 938

*S: Saturate= Paraffin+Naphthene

Sampling Date: 19 Mordad 1394 (10 Aug. 2015)

Report Date: 12 Mehr 1394 (04 Oct. 2015)



NATIONAL IRANIAN OIL COMPANY (NIOC)
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SOUTHERN PARS 12 CONDENSATE

TABLE 2: TBP DISTILLATION ANALYSIS (ASTM D2892)

Frac. No.	Boiling Range, °C	Yield, wt.%	Cumulative Yield, wt.%	Sp.Gr. @ 15.56/15.56 °C	Yield, vol.%	Cumulative Yield, vol.%
1	IBP-15	2.84	2.84	0.5687	3.72	3.72
2	15-65	13.62	16.46	0.6424	15.77	19.49
3	65-100	17.51	33.97	0.7178	18.15	37.64
4	100-125	10.93	44.90	0.7437	10.93	48.57
5	125-150	10.37	55.27	0.7640	10.10	58.67
6	150-175	9.41	64.68	0.7737	9.05	67.72
7	175-200	7.77	72.45	0.7855	7.36	75.08
8	200-225	6.06	78.51	0.7993	5.64	80.72
9	225-250	5.04	83.55	0.8117	4.62	85.34
10	250-275	4.52	88.07	0.8174	4.11	89.45
11	275-300	3.68	91.75	0.8325	3.29	92.74
12	300-325	3.13	94.88	0.8350	2.79	95.53
13	325-350	2.36	97.24	0.8399	2.09	97.62
14	350+	2.76	100.00	0.8628	2.38	100.00



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SOUTHERN PARS (15 & 16) CONDENSATE

TABLE 1: CONDENSATE GENERAL PROPERTIES ANALYSIS

CHARACTERISTICS	UNITS	RESULT	TEST METHOD
Specific Gravity @ 15.56 /15.56 °C	---	0.7402	ASTM D4052
API Gravity	°API	59.7	ASTM D4052
Sulfur Content (Total)	wt.%	0.26	ASTM D4294
H ₂ S Content	ppm	3.00	UOP 163
Mercaptan Content	wt.%	0.20	UOP 163
Nitrogen Content (Total)	ppm	<10	ASTM D4629
Water Content	ppm	<0.025	ASTM D4006
Salt Content	P.T.B	<1	ASTM D3230
PONA Analysis:			
*Saturate	vol.%	87.9	ASTM D1319
Olefins	vol.%	1.7	
Aromatics	vol.%	10.4	
Kinematic Viscosity @ 0 °C	mm ² /s	1.155	ASTM D445
Kinematic Viscosity @ 10 °C	mm ² /s	1.017	
Kinematic Viscosity @ 20 °C	mm ² /s	0.836	
Cloud Point	°C	-30	ASTM D2500
Pour Point (Upper)	°C	<-45	ASTM D97
Reid Vapor Pressure	psi	10.5	ASTM D5191
Wax Content	wt.%	0.6	BP 237
Corrosion Copper Strip (3h/50°C)	---	1b	ASTM D130
Total Acid Number	mg KOH/g	0.03	ASTM D 664
Aniline Point	°C	62	IP2
Molecular Weight	g/mol	136	Osmomat
Saybolt Color	---	22.0	ASTM D156
Bromine Index	mgBr ₂ /100g	863	IP 130
Lead Content	mg/kg	<1	ASTM D 5863

*S: Saturate= Paraffin+Naphthene

Sampling Date: 19 Mordad 1394 (10 Aug. 2015)

Report Date: 18 Mehr 1394 (10 Oct. 2015)



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SOUTHERN PARS (15 & 16) CONDENSATE

TABLE 2: TBP DISTILLATION ANALYSIS (ASTM D2892)

Frac. No.	Boiling Range, °C	Yield, wt.%	Cumulative Yield, wt.%	Sp.Gr. @ 15.56/15.56 °C	Yield, vol.%	Cumulative Yield, vol.%
1	IBP-15	4.85	4.85	0.5888	6.10	6.10
2	15-65	12.55	17.40	0.6352	14.62	20.72
3	65-100	17.54	34.94	0.7061	18.39	39.11
4	100-125	11.56	46.50	0.7395	11.57	50.68
5	125-150	10.30	56.80	0.7606	10.02	60.70
6	150-175	8.70	65.50	0.7737	8.32	69.02
7	175-200	7.31	72.81	0.7850	6.89	75.91
8	200-225	6.34	79.15	0.7939	5.91	81.82
9	225-250	5.37	84.52	0.8030	4.95	86.77
10	250-275	4.75	89.27	0.8173	4.30	91.07
11	275-300	3.60	92.87	0.8270	3.22	94.29
12	300-325	2.92	95.79	0.8369	2.58	96.87
13	325+	4.21	100.00	0.9956	3.13	100.00