BHP

HEMATITE OIL & GAS LABORATORY

CLAYTON VICTORIA

INTERMEDIATE ASSAY

CONDUCTED BY: Hematite Petroleum Pty. Ltd.,
Oil and Gas Laboratory,
245 Wellington Road,
Clayton. 3168. Victoria,
Australia.

CONDUCTED FOR: OILMIN N.L.
7th Floor,
27-35 Turbot Street,
Brisbane. 4000.

SAMPLE: EAST MEREENIE 6 CRUDE

ORIGIN: CENTRAL AUSTRALIA

HISTORY: -

DATE SAMPLED: -

LABORATORY INSPECTION REPORT NO. 1530

LABORATORY SAMPLE NO. 2952

REPORT DATE 15.11.82

REPORT BY B. JACKSON B.W. Jackson.
A. KRYLOV A. K

APPROVED BY M. TUMINELLO M Tuminello

NATA ENDORSEMENT APPLIES EXCEPT WHERE SPECIFIC TESTS HAVE BEEN MARKED WITH AN ASTERISK

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SAMPLE NO.: 2952

SAMPLE: EAST MEREENIE 6

TABLE 1

WHOLE SAMPLE DATA

METHOD	TEST		RESULT
ASTM D1298-80	GRAVITY	°API	51.5
ASTM D1298-80	SPECIFIC GRAVITY	60/60°F	0.7734
IP 336/77	SULPHUR	WT.%	0.08
ASTM D97-66	POUR POINT	°C	-40
ASTM D2500-81	CLOUD POINT	°C	-2
ASTM D3230-73	SALT CONTENT	lbs/1000 bbls.	1.2
ASTM D445-79	VISCOSITY KINEMATIC @ 100°F	cSt	1.9

FLASH POINT - <-20°C

CALORIFIC VALUE - HEAT COND GROSS 20,060 BTU/lb

18,750 " "

REID VAPOUR PRESSURE - 11.3 PSI.

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TABLE II

PRIMARY DISTILLATION DATA

TEST METHODS: ASTM D2892-78 and BHP METHOD NO. 4

LIQUID VOLUME % OFF	TEMPERATURE °F	°C	MID VOLUME % OFF	SPECIFIC GRAVITY 60/60°F	API GRAVITY °API
5.6	69	-	-	0.5494	126.1
15.2	158	-	10.4	0.6470	87.2
18.3	192	-	16.8	0.6878	74.2
22.0	212	-	20.2	0.7021	70.0
25.4	240	-	23.7	0.7152	66.3
28.5	260	-	27.0	0.7233	64.1
31.0	280	-	29.8	0.7317	61.9
34.1	302	-	32.6	0.7371	60.5
36.7	324	-	35.4	0.7459	58.2
40.2	350	-	38.4	0.7509	56.9
43.5	375	-	41.8	0.7590	54.9
46.7	400	-	45.1	0.7665	53.1
49.7	425	-	48.2	0.7733	51.5
52.9	450	-	51.3	0.7795	50.0
55.3	475	-	54.1	0.7908	47.4
58.0	495	-	56.6	0.7941	46.7
60.7	522	-	59.4	0.7999	45.4
63.6	544	-	62.2	0.8046	44.4
66.6	571	-	65.1	0.8095	43.3
70.1	600	-	68.4	0.8167	41.8
73.2	635	-	71.6	0.8240	40.2
76.6	675	-	74.9	0.8334	38.3
79.2	740	-	77.9	0.8460	35.8
80.9	760	-	80.0	0.8492	35.1
83.3	792	-	82.1	0.8533	34.3
86.5	818	-	84.9	0.8595	33.1
88.9	908	-	87.7	0.8687	31.5
92.4	975	-	90.6	0.8738	30.4
100	975+	-	96.2	0.8999	25.7

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TABLE III

LIGHT HYDROCARBONS SUMMARY

COMPONENT	LIQUID VOLUME % ON CRUDE
METHANE	-
ETHANE	0.28
PROPANE	1.62
ISO BUTANE	0.67
NORMAL BUTANE	3.07
NEO PENTANE	0.04
ISO PENTANE	1.87
NORMAL PENTANE	3.29
HEXANES PLUS	89.16
	100.00

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TABLE IV

LIGHT ENDS COMPONENT ANALYSIS

15/5 CUT POINT	°F VT	GAS TO 69
15/5 CUT POINT	°C VT	GAS TO 21
YIELD CUT RANGE	VOL.%	0-6.0
YIELD ON CRUDE	VOL.%	6.0

TEST METHOD: GAS CHROMATOGRAPHY - BHP METHOD NO. 5

COMPONENT	LIQUID VOLUME %	
	ON GAS	ON CRUDE
ETHANE	4.73	0.28
PROPANE	26.77	1.61
ISO BUTANE	10.35	0.62
NORMAL BUTANE	40.82	2.45
NEO PENTANE	0.48	0.03
ISO PENTANE	8.80	0.53
NORMAL PENTANE	7.89	0.47
HEXANES PLUS	0.12	0.01

Yields shown in Tables IV and V are those as cut from the fractionation column. These values may differ slightly from those which appear in Table II as these have been adjusted to reflect calculated complete split between C_4 and C_5 hydrocarbons.

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TABLE V-A

HYDROCARBON COMPONENT ANALYSIS - LIGHT NAPHTHA

15/5 CUT POINT	°F VT	69-158
15/5 CUT POINT	°C VT	21-70
YIELD CUT RANGE	VOL.%	6.0-15.2
YIELD ON CRUDE	VOL.%	9.2

TEST METHOD: GAS CHROMATOGRAPHY - BHP METHOD NO. 7

COMPONENT	LIQUID VOLUME %	
	ON NAPHTHA	ON CRUDE
Propane	0.11	0.01
isoButane	0.59	0.05
n-Butane	6.69	0.62
neoPentane	0.08	0.01
isoPentane	14.50	1.33
n-Pentane	30.36	2.79
2,2-Dimethylbutane	0.77	0.07
Cyclopentane	0.40	0.04
2,3-Dimethylbutane	2.01	0.18
2-Methylpentane	11.82	1.09
3-Methylpentane	6.87	0.63
n-Hexane	22.97	2.11
2,2-Dimethylpentane	0.12	0.01
Methylcyclopentane	1.21	0.11
2,4-Dimethylpentane	0.23	0.02
Benzene	0.15	0.01
2,2,3-Trimethylbutane	0.04	0.01
3,3-Dimethylpentane	0.02	0.01
Cyclohexane	0.48	0.04
2-Methylhexane	0.22	0.02
2,3-Dimethylpentane	0.05	0.01
1,1-Dimethylcyclopentane	-	-
3-Methylhexane	0.01	0.01
1,cis-3-Dimethylcyclopentane	0.12	0.01
1,trans-3-Dimethylcyclopentane	-	-
1,trans-2-Dimethylcyclopentane	-	-
n-Heptane	0.05	0.01
Methylcyclohexane	-	-
Summary:		
Paraffins	97.64	8.98
Naphthenes	2.21	0.20
Aromatics	0.15	0.01

Calculated specific gravity = 0.6443

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TABLE V-B

HYDROCARBON COMPONENT ANALYSIS - LIGHT NAPHTHA

15/5 CUT POINT	°F VT	158 - 212
15/5 CUT POINT	°C VT	70 - 100
YIELD CUT RANGE	VOL.%	15.2 - 22.0
YIELD ON CRUDE	VOL.%	6.8

TEST METHOD: GAS CHROMATOGRAPHY - BHP METHOD NO. 8

COMPONENT	LIQUID VOLUME %	
	ON NAPHTHA	ON CRUDE
Propane	0.001	-
isoButane	0.001	-
n-Butane	0.012	0.001
iso-Pentane	0.083	0.006
n-Pentane	0.365	0.025
2,2-Dimethylbutane	0.057	0.004
2,3-Dimethylbutane	0.416	0.028
Cyclopentane		
2-Methylpentane	2.869	0.195
3-Methylpentane	2.555	0.174
n-Hexane	16.637	1.131
2,2-Dimethylpentane	0.526	0.036
Methylcyclopentane	1.561	0.106
2,4-Dimethylpentane	1.353	0.092
2,2,3-Trimethylbutane	0.240	0.016
Benzene	0.151	0.010
3,3-Dimethylpentane	0.371	0.025
Cyclohexane	2.712	0.184
2-Methylhexane	14.421	0.981
2,3-Dimethylpentane	0.423	0.029
1,1-Dimethylcyclopentane	-	-
3-Methylhexane	11.945	0.812
1,cis-3-Dimethylcyclopentane	0.708	0.048

TABLE V-B (cont'd.)

COMPONENT	LIQUID VOLUME %	
	ON NAPHTHA	ON CRUDE
1,trans-3-Dimethylcyclopentane	0.769	0.052
3-Ethylpentane	0.605	0.041
1,trans-2-Dimethylcyclopentane	0.903	0.061
2,2,4 Trimethylpentane	0.008	0.001
n-Heptane	29.834	2.029
Methylcyclohexane	6.087	0.414
1,cis-2-Dimethylcyclopentane	0.112	0.008
2,2-Dimethylhexane	0.397	0.027
Ethylcyclopentane	0.282	0.019
2,5-Dimethylhexane	0.383	0.026
2,4-Dimethylhexane	0.510	0.035
3,3-Dimethylhexane	-	-
1,trans-2, cis-4-Trimethylcyclopentane	0.118	0.008
1,trans-2, cis-3-Trimethylcyclopentane	0.065	0.004
2,3,4-Trimethylpentane	0.019	0.001
Toluene	0.626	0.043
2,3-Dimethylhexane	0.143	0.010
2-Methylheptane	0.488	0.033
4-Methylheptane	0.245	0.017
1,cis-3-Dimethylcyclohexane	0.507	0.034
3-Methylheptane	0.064	0.004
1,1-Dimethylcyclohexane	0.016	0.001
Cycloheptane	0.011	0.001
1,trans-2-Dimethylcyclohexane	0.013	0.001
n-Octane	0.184	0.012
Ethylcyclohexane	0.002	-
Unidentified	0.202	0.014
Summary:		
Paraffins	85.155	5.791
Naphthenes	13.866	0.943
Aromatics	0.777	0.053

Calculated Molecular Weight = 99.95

Calculated Specific Gravity = 0.6956

Calculated R.O.N. = 37.31

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TABLE VI

HYDROCARBON COMPONENT ANALYSIS - INTERMEDIATE NAPHTHA

15/5 CUT POINT	°F VT	212 - 302
15/5 CUT POINT	°C VT	100 - 150
YIELD CUT RANGE	VOL.%	22.0 - 34.1
YIELD ON CRUDE	VOL.%	12.1

TEST METHOD: GAS CHROMATOGRAPHY - BHP METHOD NO. 9

COMPONENT	LIQUID VOLUME %	
	ON NAPHTHA	ON CRUDE
n-Butane	0.001	-
iso-Pentane	0.001	-
n-Pentane	0.003	-
2,3-Dimethylbutane } Cyclopentane	0.005	0.001
2-Methylpentane	0.028	0.003
3-Methylpentane	0.034	0.004
n-Hexane	0.286	0.035
2,2-Dimethylpentane	0.020	0.002
Methylcyclopentane	0.053	0.006
2,4-Dimethylpentane	0.052	0.006
2,2,3-Trimethylbutane	0.013	0.002
Benzene	0.006	0.001
3,3-Dimethylpentane	0.032	0.004
Cyclohexane	0.185	0.022
2-Methylhexane	1.249	0.151
2,3-Dimethylpentane	0.265	0.032
1,1-Dimethylcyclopentane	0.048	0.006
3-Methylhexane	1.606	0.194
1,cis-3-Dimethylcyclopentane	0.104	0.013
1,trans-3-Dimethylcyclopentane	-	-
3-Ethylpentane	0.093	0.011
1,trans-3-Dimethylcyclopentane	0.131	0.016
1,trans-2-Dimethylcyclopentane	0.161	0.019
n-Heptane	9.115	1.103

TABLE VI (cont'd.)

COMPONENT	LIQUID VOLUME %	
	ON NAPHTHA	ON CRUDE
1-cis-2-Dimethylcyclopentane	0.047	0.006
Methylcyclohexane	3.576	0.433
2,2-Dimethylhexane	0.396	0.048
Ethylcyclopentane	0.213	0.026
2,5-Dimethylhexane	0.661	0.080
2,4-Dimethylhexane	0.971	0.117
3,3-Dimethylhexane	0.219	0.026
1,trans-2,cis-4-Trimethylcyclopentane	0.213	0.026
1,trans-2,cis-3-trimethylcyclopentane	0.140	0.017
2,3,4-Trimethylpentane	0.062	0.008
Toluene	0.528	0.064
2,3-Dimethylhexane	1.035	0.125
2-Methylheptane	6.095	0.737
4-Methylheptane	2.675	0.324
1,cis-3-Dimethylcyclohexane	9.108	1.102
1,trans-3-Dimethylcyclohexane		
3-Methylheptane	1.381	0.167
1,1-Dimethylcyclohexane	0.308	0.037
2,2,5-Trimethylhexane	-	-
Cycloheptane	0.178	0.022
2,2,4-Trimethylhexane	0.068	0.008
1,trans-2-Dimethylcyclohexane	0.869	0.105
n-Octane	21.062	2.548
2,3,5-Trimethylhexane	0.085	0.010
1,cis-2-Dimethylcyclohexane	0.574	0.069
2,4-Dimethylheptane	0.072	0.009
Ethylcyclohexane	1.729	0.209
1,1,4-Trimethylcyclohexane	0.575	0.070
1,1,3-Trimethylcyclohexane	0.342	0.041
1,1,2-Trimethylcyclohexane	1.215	0.147
2,5-Dimethylheptane	-	-
Ethylbenzene	0.172	0.021
2,3,4-Trimethylhexane	0.800	0.097
para-Xylene	0.964	0.117
meta-Xylene	0.468	0.057

TABLE VI (cont'd.)

COMPONENT	LIQUID VOLUME %	
	ON NAPHTHA	ON CRUDE
4-Methyloctane	2.917	0.353
2-Methyloctane	3.217	0.389
1,trans-2,cis-3-Trimethylcyclohexane	0.598	0.072
3-Methyloctane	3.479	0.421
1,trans-2,cis-4-Trimethylcyclohexane		
ortho-Xylene	0.075	0.009
1,1,2-Trimethylhexane		
Methyl ethylcyclohexanes	1.482	0.179
n-Nonane	11.205	1.356
iso-Propylbenzene	0.013	0.002
iso-Propylcyclohexane	0.135	0.016
n-Propylcyclohexane	0.056	0.007
2,6-Dimethyloctane	0.215	0.026
n-Propylbenzene	0.060	0.007
meta-Ethyltoluene	0.138	0.017
para-Ethyltoluene	0.003	-
1,3,5-Trimethylbenzene	0.050	0.006
Phenol	0.193	0.023
ortho-Ethyltoluene		
2-Methylnonane	0.179	0.022
3-Methylnonane	0.150	0.018
Hydrindan	0.012	0.001
1,2,4-Trimethylbenzene	0.007	0.001
n-decane	0.166	0.020
sec-butylBenzene	-	-
unidentified	5.356	0.648
Summary:		
Paraffins	69.913	8.460
Naphthenes	22.052	2.668
Aromatics	2.679	0.324
Unidentified	5.356	0.648

Calculated Molecular Weight = 111.29

Calculated Specific Gravity = 0.7330

Calculated R.O.N. = 24.65

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TABLE VII

HYDROCARBON COMPONENT ANALYSIS - HEAVY NAPHTHA

15/5 CUT POINT	°F VT	302 - 375
15/5 CUT POINT	°C VT	150 - 190
YIELD CUT RANGE	VOL.%	34.1-43.5
YIELD ON CRUDE	VOL.%	9.4

TEST METHOD: GAS CHROMATOGRAPHY - BHP METHOD NO. 9 (MODIFIED)

COMPONENT	LIQUID VOLUME %	
	ON NAPHTHA	ON CRUDE
n-Pentane	0.001	0.001
2-Methylpentane	-	-
3-Methylpentane	-	-
n-Hexane	0.003	0.001
Methylcyclopentane	-	-
Benzene	-	-
Cyclohexane	-	-
2-Methylhexane	-	-
3-Methylhexane	-	-
1,trans-2-Dimethylcyclopentane	-	-
n-Heptane	0.014	0.001
Methylcyclohexane	0.021	0.002
2,4-Dimethylhexane	0.008	0.001
2,3-Dimethylhexane	0.009	0.001
Toluene	-	-
1,trans-3-Dimethylcyclohexane 1,cis-3-Dimethylcyclohexane	0.238	0.022
2-Methylheptane	0.082	0.008
3-Methylheptane	0.067	0.006
4-Methylheptane	0.049	0.005
1,trans-2-Dimethylcyclohexane	0.068	0.006
1,1 Dimethylcyclohexane	0.015	0.001

TABLE VII (cont'd.)

COMPONENT	LIQUID VOLUME %	
	ON NAPHTHA	ON CRUDE
n-Octane	1.084	0.102
2,2,5-Trimethylhexane	0.014	0.001
2,3,5-Trimethylhexane	0.021	0.002
1,cis-2-Dimethylcyclohexane	0.085	0.008
2,4-Dimethylheptane	0.391	0.037
Ethylcyclohexane	0.086	0.008
1,1,4-Trimethylcyclohexane	0.097	0.009
1,1,3-Trimethylcyclohexane	0.215	0.020
1,1,2-Trimethylcyclohexane	0.060	0.006
2,5-Dimethylheptane	0.035	0.003
Ethylbenzene	0.316	0.030
1,Trans-2,Trans-4 Trimethylcyclohexane	0.059	0.006
2,3,4-Trimethylhexane	-	-
para-Xylene	0.226	0.021
meta-Xylene	0.157	0.015
4-Methyloctane	1.044	0.098
2-Methyloctane	1.479	0.139
1,trans-2,cis-3- Trimethylcyclohexane	1.584	0.149
3-Methyloctane	-	-
1,trans-2,cis-4- Trimethylcyclohexane	-	-
ortho-Xylene		
1,1,2-Trimethylcyclohexane	0.229	0.022
Methyl-ethylcyclohexanes	2.027	0.190
n-Nonane	12.415	1.167
iso-Propylbenzene	0.268	0.025
iso-Propylcyclohexane	0.148	0.014
n-Propylcyclohexane	0.748	0.070
2,6-Dimethyloctane	1.263	0.119
n-Propylbenzene	0.250	0.024
meta-Ethyltoluene	0.980	0.092
para-Ethyltoluene	0.052	0.005
1,3,5-Trimethylbenzene	0.512	0.048

TABLE VII (cont'd.)

COMPONENT	LIQUID VOLUME %	
	ON NAPHTHA	ON CRUDE
phenol ortho-Ethyltoluene	2.975	0.280
2-Methylnonane	0.962	0.090
3-Methylnonane	0.977	0.092
Hydrindan	0.898	0.084
1,2,4-Trimethylbenzene	0.742	0.070
iso-Butylcyclohexane	0.201	0.019
iso-Butylbenzene	0.355	0.033
sec-Butylbenzene	0.583	0.055
n-Decane	21.702	2.040
1,2,3-Trimethylbenzene	0.296	0.028
1-methyl, 4-Isopropylbenzene	0.075	0.007
Indan	0.168	0.016
Indene	0.509	0.048
n-Butylcyclohexane	1.082	0.102
meta-Diethylbenzene	0.712	0.067
n-Butylbenzene	0.903	0.085
ortho-Diethylbenzene	0.416	0.039
trans-Decalin	0.279	0.026
meta-cresol para-cresol	1.444	0.136
1-Methylindan	0.102	0.010
cis-Decalin	0.224	0.021
n-Undecane	8.498	0.799
1,2,4,5-Tetramethylbenzene	0.159	0.015
1,2,3,5-Tetramethylbenzene	0.073	0.007
1,2,3,4-Tetramethylbenzene	0.052	0.005
Tetralin	0.011	0.001
n-Pentylbenzene	0.111	0.010
Naphthalene	0.106	0.010
5,tert-butyl, meta-Xylene	0.084	0.008
2, Methyl-Decalin	0.154	0.014
n-Dodecane	-	-
Unidentified	28.727	2.700

TABLE VII (cont'd.)

Summary:

Paraffins	50.120	4.711
Naphthenes	8.394	0.789
Aromatics	12.759	1.199
Unidentified	28.727	2.700

Calculated Molecular Weight = 123.49

Calculated Specific Gravity = 0.7793

Calculated R.O.N. = 27.6

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TABLE VIII
STRAIGHT RUN DEBUTANISED GASOLINE

15/5 CUT POINT	°F VT	69 - 375
15/5 CUT POINT	°C VT	21 - 191
YIELD CUT RANGE	VOL.%	5.6-43.5
YIELD ON CRUDE	VOL.%	37.9

METHOD	TEST		RESULT
ASTM D1298-80	SPECIFIC GRAVITY	60/60°F	0.7093
ASTM D1298-80	GRAVITY	°API	68.0
IP336/77	SULPHUR	WT.%	0.04
	HYDROGEN SULPHIDE	ppm	< 1
MM39	MERCAPTAN SULPHUR	ppm	92
ASTM D2699-80	RESEARCH OCTANE NUMBER		
	CLEAR		32.6
	+ 3.0ml TEL/USG		54.9
ASTM D2700-80	MOTOR OCTANE NUMBER		
	+ 3.0ml TEL/USG		56.8
ASTM D86-78	DISTILLATION		
	INITIAL BOILING POINT	°C	52
	5% REC	"	66
	10% "	"	75
	20% "	"	87
	30% "	"	99
	40% "	"	110
	50% "	"	122
	60% "	"	130
	70% "	"	146
	80% "	"	157
	90% "	"	172
	95% "	"	185
	FINAL BOILING POINT	"	188
	RECOVERY	%	96.5
	RESIDUE	%	0.9
	LOSS	%	2.6
ASTM D323	REID VAPOUR PRESSURE	psi	4.8

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SAMPLE NO.: 2952 SAMPLE: EAST MEREENIE 6

TABLE IX (A)

KEROSENE AND TURBO FUEL

15/5 CUT POINT	°F VT	375 - 450
15/5 CUT POINT	°C VT	191 - 232
YIELD CUT RANGE	VOL.%	43.5-52.9
YIELD ON CRUDE	VOL.%	9.4

METHOD	TEST		RESULT
ASTM D1298-80	SPECIFIC GRAVITY	60/60°F	0.7741
ASTM D1298-80	GRAVITY	°API	51.3
IP336/77	TOTAL SULPHUR	WT.%	0.08
MM39	HYDROGEN SULPHIDE	ppm	< 1
MM39	MERCAPTAN SULPHUR	ppm	179
IP57/55	SMOKE POINT	mm	35
IP16/73	FREEZING POINT	°C	-39
ASTM D611-77	ANILINE CLOUD POINT	°F	170
IP21/53	DIESEL INDEX		87.2
ASTM D1319-77	FIA AROMATICS	VOL.%	4.6
	OLEFINS	"	3.8
	SATURATES	"	91.6
ASTM D445-79	VISCOSITY		
	KINEMATIC @ 0°F	cSt	7.3
	@ 100°F	cSt	1.5

TABLE IX (A) (cont'd.)

METHOD	TEST		RESULT
ASTM D86-78	DISTILLATION		
	INITIAL BOILING POINT	°C	194
	5% REC.	"	200
	10% "	"	201
	20% "	"	203
	30% "	"	205
	40% "	"	206
	50% "	"	208
	60% "	"	210
	70% "	"	212
	80% "	"	215
	90% "	"	220
	95% "	"	224
	FINAL BOILING POINT	"	228
	RECOVERED	%	99.0
	RESIDUE	%	1.0
	LOSS	%	-
ASTM D976-80	CALCULATED CETANE INDEX		58.8

INTERMEDIATE ASSAY NO. 1530

SAMPLE NO.: 2952 SAMPLE: EAST MEREENIE 6

TABLE IX (B)

KEROSENE AND TURBO FUEL

15/5 CUT POINT	°F VT	350 - 450
15/5 CUT POINT	°C VT	177 - 232
YIELD CUT RANGE	VOL.%	40.2-52.9
YIELD ON CRUDE	VOL.%	12.7

METHOD	TEST		RESULT
ASTM D1298-80	SPECIFIC GRAVITY	60/60°F	0.7699
ASTM D1298-80	GRAVITY	°API	52.3
IP57/55	SMOKE POINT	mm	32
IP16/73	FREEZING POINT	°C	-43
ASTM D1319-77	FIA AROMATICS	VOL.%	4.6
	OLEFINS	"	3.6
	SATURATES	"	91.8
ASTM D445-79	VISCOSITY		
	KINEMATIC @ 0°F	cSt	3.7
	@ 100°F	cSt	1.4

TABLE IX (B) (cont'd.)

METHOD	TEST		RESULT
ASTM D86-78	DISTILLATION		
	INITIAL BOILING POINT	°C	186
	5% REC.	"	190
	10% "	"	192
	20% "	"	195
	30% "	"	197
	40% "	"	200
	50% "	"	202
	60% "	"	205
	70% "	"	208
	80% "	"	212
	90% "	"	218
	95% "	"	224
	FINAL BOILING POINT	"	226
	RECOVERED	%	98.0
	RESIDUE	%	1.5
	LOSS	%	0.5
ASTM D976-80	CALCULATED CETANE INDEX		58.2

INTERMEDIATE ASSAY NO.: 1530

SAMPLE NO.: 2952 SAMPLE: EAST MEREENIE 6

TABLE X

MIDDLE DISTILLATE FUEL

15/5 CUT POINT	°F VT	450 - 675
15/5 CUT POINT	°C VT	232 - 357
YIELD CUT RANGE	VOL.%	52.9-76.6
YIELD ON CRUDE	VOL.%	23.7

METHOD	TEST		RESULT
ASTM D1298-80	SPECIFIC GRAVITY	60/60°F	0.8106
ASTM D1298-80	GRAVITY	°API	43.1
IP 336/77	TOTAL SULPHUR	WT.%	0.09
ASTM D2500-81	CLOUD POINT	°C	0
ASTM D97-66	POUR POINT	°C	-15
ASTM D445-79	VISCOSITY		
	KINEMATIC @ 100°F	cSt	3.8
	@ 150°F	"	2.2

TABLE X (cont'd.)

ASTM D86-78	DISTILLATION		
	INITIAL BOILING POINT	°C	249
	5% REC.	"	258
	10% "	"	261
	20% "	"	266
	30% "	"	270
	40% "	"	276
	50% "	"	284
	60% "	"	292
	70% "	"	302
	80% "	"	312
	90% "	"	323
	95% "	"	-
	FINAL BOILING POINT	"	324
	RECOVERED	%	95.5
	RESIDUE	%	4.0
	LOSS	%	0.5
ASTM D976-80	CALCULATED CETANE INDEX		64.7

INTERMEDIATE ASSAY NO. 1530

SAMPLE NO.: 2952 SAMPLE: EAST MEREENIE 6

TABLE XI

GAS OIL

15/5 CUT POINT	°F VT	675+
15/5 CUT POINT	°C VT	357+
YIELD CUT RANGE	VOL.%	79.2-100
YIELD ON CRUDE	VOL.%	20.8

METHOD	TEST		RESULT
ASTM D1298-80	SPECIFIC GRAVITY	60/60°F	0.8724
ASTM D1298-80	GRAVITY	°API	30.7
IP 336/77	TOTAL SULPHUR	WT.%	0.11
ASTM D524-81	RAMSBOTTOM CARBON RESIDUE	WT.%	0.8
ASTM D97-66	POUR POINT	°C	-6
ASTM D445-79	VISCOSITY		
	KINEMATIC @ 100°F	cSt	86.3
	@ 150°F	"	26.9
IP 288/72 *	METALS SODIUM	ppm	9
	VANADIUM	"	6
	NICKEL	"	<1
	IRON	"	8
ASTM D976-80	CALCULATED CETANE INDEX		33.0

INTERMEDIATE ASSAY NO. 1530

CRUDE EAST MEREENIE 6

SAMPLE NO. 2952