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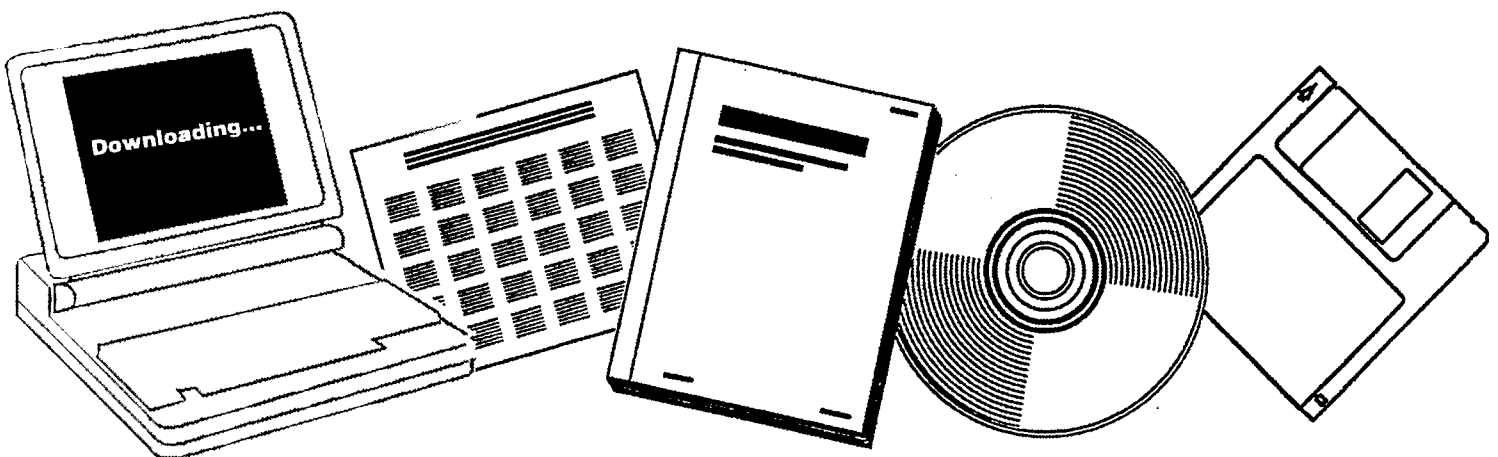
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SURVEY: R AND D INTERIM REPORT NO. 2. DATA
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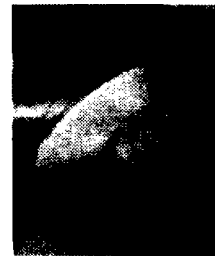
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COAL LIQUEFACTION PROCESS RESEARCH
PROCESS SURVEY
R & D INTERIM REPORT NO. 2
DATA SOURCE BOOK

work performed by
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ABBREVIATIONS

ADL	Arthur D. Little, Inc.
AEC	Atomic Energy Commission
AGA	American Gas Association
av	average
bb1	barrel(s)
BGC	British Gas Council, The
bp	boiling point
BNL	Brookhaven National Laboratories
BPD	barrels per day
BPCD	barrels per calendar day
BPSD	barrels per stream day
Btu	British thermal unit
CCL	Catalytic Coal Liquids
CFFC	Clean Fuel from Coal
COED	Char-Oil-Energy-Development
CS	centistokes
CSF	Consol Synthetic Fuel
DCF	discounted cash flow
DOE	Department of Energy
DTPH	dry tons per hour
°E	degrees Engler (viscosity)
EDS	Exxon Donor Solvent

ABBREVIATIONS (Contd)

eff	efficiency
EOR	end of run
EPA	Environmental Protection Agency
EPRI	Electric Power Research Institute
ERDA	Energy Research and Development Administration
EMC	Food Machinery Corporation
FOE	fuel oil equivalent (6,500,000 Btu/bbl)
FSC	flame sprayed catalyst
F-T	Fisher-Tropsch
gpm	gallons per minute
h	hour
hvAb	high volatile bituminous type A
HHV	higher heating value
HP	high pressure
hp	horsepower
ICI	Imperial Chemical Industries, Ltd.
IGT	Institute of Gas Technology
kV	kilovolt (1,000 volts)
kWh	kilowatt hour
lb	pound
LP	low pressure
LT	low temperature
M	thousand
MAF	moisture- and ash-free (coal)

ABBREVIATIONS (Contd)

MEK	methyl ethyl ketone
MF	moisture-free (coal)
MM	million
MON	motor octane number
MW	megawatts
MWe	megawatt electricity
NA	not available
NCA	National Coal Association
NCB	National Coal Board
NCRAC	National Coal Research Advisory Committee
Nm ³	normal cubic meters
NRDC	National Research and Development Committee
NSF	National Science Foundation
OCR	Office of Coal Research
PERC	Pittsburgh Energy Research Center
ppm	parts per million
psia	pounds per square inch absolute
psig	pounds per square inch gauge
RMP	Ralph M. Parsons Co.
ROM	run-of-mine (raw coal from mine, unbroken, and not cleaned)
RON	Research Octane Number
SASOL	South African Coal, Oil and Gas Corporation
scf	standard cubic feet
scfd	standard cubic feet per day

ABBREVIATIONS (Contd)

scfh	standard cubic feet per hour
SNG	substitute natural gas
SOR	start of run
sp gr and SG	specific gravity
SRC	solvent refined coal
SRII	Schroeder's Rapid Hydrogenation
SRT	short residence time
SSF	Saybolt Seconds FuroI
SSU	Saybolt Seconds Universal
stp	standard temperature and pressure
STPD	short tons per day
Syngas	synthesis gas
TBP	true boiling point
TOSCO	The Oil Shale Corporation
TDP	tons per day
TPH	tons per hour
TPSD	tons per stream day
TPY	tons per year
TVA	Tennessee Valley Authority
UOP	Universal Oil Products Company
USBM	U.S. Bureau of Mines
VM	volatile matter
wt	weight
WHSV	weight hourly space velocity