

Bureau of Mines
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PRODUCTION OF CRUDE AMMONIA-SYNTHESIS GAS
FROM NORTH DAKOTA LIGNITE
IN AN ANNULAR-RETORT GASIFIER

BY W. H. OPPELT, T. W. KAMPS, C. H. GRONHOVD,
W. R. KUBE, AND R. MCMURTRIE

United States Department of the Interior—January 1957

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BUREAU OF MINES
Marling J. Ankeny, Director

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by

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CONTENTS

	<u>Page</u>
Summary and conclusions	1
Introduction	2
Acknowledgments	3
Design and operation of pilot plant	3
Description of small gasifier and gas-handling system	3
Design and construction of retort	4
Reaction tube	4
Electrical Heating system	4
Heating compartments and retort insulation	7
Charging unit	12
Residue-removal unit	12
Process steam and air	12
Instrumentation	12
Auxiliary equipment	16
Operation of retort	16
Operating procedure	16
Sampling	17
Lignite tested	17
Results of tests	18
Comparison of small and commercial-scale gasifiers	18
Relationship of gas production, rate of feeding, and heating-chamber temperature, small gasifier	19
Production of crude ammonia-synthesis gas	22
Composition of products	23
Typical heat balances	24
Typical material and elemental balances	24
Appendix	26
Bibliography	29

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ILLUSTRATIONS

<u>Fig.</u>	<u>Page</u>
1. Schematic diagram of small-scale annular-retort gasifier, Bureau of Mines, Grand Forks, N. Dak.	5
2. Overall view of completed small gasifier, Bureau of Mines, Grand Forks, N. Dak.	6
3. Forming heating element for small gasifier with coiling machine, Bureau of Mines, Grand Forks, N. Dak.	8
4. Wiring diagram for heating circuit of small gasifier, Bureau of Mines, Grand Forks, N. Dak.	9
5. Details of power terminal connector to resistance heating wires, small gasifier, Bureau of Mines, Grand Forks, N. Dak.	10
6. Refractory casting for small gasifier, Bureau of Mines, Grand Forks, N. Dak.	11
7. Details of retort, small gasifier, Bureau of Mines, Grand Forks, N. Dak.	13
8. Residue-removal unit and process-steam boiler, small gasifier, Bureau of Mines, Grand Forks, N. Dak.	14
9. Modified protection tube for control thermocouples, small gasifier, Bureau of Mines, Grand Forks, N. Dak.	15
10. Gasification of lignite as a function of air-lignite ratio	21
11. Comparison of experimental and theoretical internal heating for lignite gasification	22

TABLES

1. Comparison of reaction tube and reaction zones between small and large gasifiers	3
2. Composition of Dakota Star lignite charged to gasifier ..	18
3. Size distribution of Dakota Star lignite charged to gasifier	18
4. Composition of product gas	23
5. Typical proximate and ultimate analyses of gasification residue and blowover dust from tests at 1,800° F.	24
6. Typical thermal balances	25
7. Typical material and elemental balances	26
8. Summary data on gasification of Dakota Star lignite, small gasifier	27
9. Material and heat distribution of reactants and products for lignite gasification, small gasifier	28