

Bibliography:

- Agostini, A., (1977), correlation of high resolution density log counts and ash content of coal: Exploration Geophysicists bulletin, pp26-31
- Alberta and British Columbia. (2003) Proceedings of "Understanding the Business of Coalbed Methane" conference, Calgary, February, pp. 25-27,
- Allen L.S., (1967), Dual-spaced Neutron Logging for Porosity, Geophysics 32,
- Ammsov I.I. et al., (1977), Fracturing in Coal, IPST Catalog no.755, pp. 109.
- Anderson J, Simpson M, (2003), Producing Natural Gas from Coal, Oil Reve., pp.8-31.
- Averitt P., (1975), Coal Resources of the United States, U.S. Geological Survey Bull, pp.131
- Ayers, W.B. et al., (1991), Geologic & hydrologic controls on the occurrence and producibility of Coal bed methane, report: Gas Research Institute, Chicago, pp314.
- Ayers, W.B. and Kaiser, W.R., eds., (1994), Coalbed Methane in the Upper Cretaceous Fruitland Formation, San Juan Basin, New Mexico and Colorado, New Mexico Bureau of Mines and Mineral Resources Bulletin, pp.146
- Bastia R et al., (1995), Coal seam Methane –its potential in India. Proc. Of Petrotech '95, pp291-309.
- Beamish B.B., (1995), The influence of maceral content on the sorption of gases by coal, Int. Symp. Wollongong, pp. 353-361.

- Beaton, Andrew. (2003), Coal distribution as related to coalbed methane potential.
- Beavers W.M.(1997),Critical Issues for successful CBM Development in Queensland: Case study of CONOCO, Australia's CSM Program, Brisbane , pp. 12-13.
- Bell J.S., Price R.A.,(1994),In-situ Analysis in Western Canada sedimentary Basin, Petrol. Geol. Alberta Research council., pp439-446.
- Berner U & Faber E,(1992), Mathematical simulation of huminitic coals and related Methane.
- Bertard C et al.,(1970),Determination of Desorbable Gas Concentration of Coal, , International Journal of Rock Mechanics, Vol7,pp.43-65.
- Bertrand P,(1986),Composition of Potential oil from humic coals in relation to their petrographic nature,Organic Geochemistry,Vol.3,pp.601-608.
- Biswas.D, Hajra P.N, Pal D,(2002),Coal bed Methane potential of North Raniganj Block of Raniganj coal field, First APG Conference, Mussorie.
- Biswas S.K.,(1995),Prospect of CBM in India,Indian Jour. Of Pet.Geology,Vol4,pp 1-23.
- Bond L.O., (1971),Well log Application in Coal Mining and Rock Mechanics,Coal Geophysics,pp. 28-35.
- Boreck D.L.,(1984),Coal bed Methane Study in the Anderson Coal Deposit, Wyoming, U.S. Geological Survey Report 831,pp16

- Boxho J et al.,(1993),Handbook for the Coal Mining Industry, Int. Symp., Brisbane, pp.95-98.
- Brom R.W.C et al.,(1981),Application of Petro-physical logging in the evaluation of coal deposits,22nd Annual Logging Symposium,Houston,pp.29.
- Boyer C.M. et al.,(2000),Comparative Analysis of Coal bed Methane Production trends and Variability-Impact on exploration & production, Rocky Mountain Association of Geologists,U.S,pp.5
- Bull W.B.,(1964),Geomorphology of Segmented Alluvial Fans in Western Fresno County,California, US Geological Survey Bull.,pp89-128
- Cameron C.C.,(1989),The Geology of selected peat forming environment from temperate and tropical latitude, Int Coal Geology.Vol.12,pp.105-156.
- Chandra K, Sahai S, Das D and A.K.Singh,(1999),Coal bed Methane resources of India, Petrotech 99,Vol IV.
- Chung H.M.,(1988),Origin of gaseous Hydrocarbons in Subsurface environments.,Chemical Geology,Vol.71,pp.97-103.
- Cholate R, LentJ,(1984),Upper Crataceous Geology,Coal & potential for Methane recovery from San Juan Basin-Colorado and New Mexico, American Association of Petroleum Geologists, pp. 185-222.
- Clark W.F.,Hemler T,(1988),Completing, Equipping and Operating Fruitland Formation Coal bed Methane in the San Juan Basin, Rocky Mountain Association of Geologists,U.S,pp.125-132

- Clayton C.(1991).Natural gas generation from Kerogen., *Petroleum Geology*,pp.232-240.
- Close J.C,(1989),Significance and Determination of the Gas Content Data Related to Coal bed, Paper 8922,Proceeding of the 1989 Coal bed Methane Symposium,Alabama,pp.37-55.
- Close J.C,(1993),Natural Fractures in Coal, *AAPG Bulletin*-38,pp. 119-132.
- Conway M.W.,(1995),The effect of fracturing fluid damage on production- Alabama,1995 International Unconventional Gas Symposium, pp. 229-236.
- Cox D.O et al.,(1993),Analysis of Fruitland water production, treatment and Disposal, Report of Gas Research Institute, pp. 288.
- Creedy D.P.,(1983),Nitrogen and Carbon di oxide occurrence in Coal Seams.
- Crosdale et al.,(1998),Coal bed Methane sorption related to Coal Composition, *Int. J. of Coal Geology*35, pp.147-158.
- Curtis J.B,(1996),Size of U.S. Natural Gas Resource, *Journal of Petroleum Technology*,Vol.48,pp.75-81.
- Daniels J.J. et al.,(1983),Estimation of Coal Quality Parameters from well logs, *Society of Professional Well log Analysts*,Houston,pp20.
- Dawson F.M.,(1994),Coal rank and Coal bed Methane Potential of Cretaceous/tertiary coals in the Canadian Rocky Mountain Foothills,Alberta *Bull. Can. Pet. Geol.* 65. pp.79-92.
- De Bruin et al.,(2001),Coal bed Methane in Wyoming,U.S. state Geological Survey Report,pp19.

- Decker A.D, Wicks D.E.(1993),Gas content Measurement in Antrim Shale, Gas Research Institute Report,pp.81
- Dhir R, et al..(1991),Evaluation of Fruitland coal Properties & Development Economics, Rocky Mountain Association of Geologists,U.S,pp.287-295.
- Diamond W.P,(1981),Direct Method Determination of the Gas Content of Coal: Procedures and Results, Bureau of Mines Report,U.S,pp.36
- Diessel C.F.K,(1992),Coal Bearing depositional Systems,Sringer-Verlog,pp.400.
- Dugan T.A.,Williams B.L.,(1988),History of Gas produced from Coal Seams in San Juan Basin,Rocky Mountain Association of Geologists,Denver,pp.1-9.
- Elliott T,(1986),Sedimentary environment & Facies ,Blackwell Scientific Publication, Oxford, pp 113-154.
- Esterle J.S.,(1989),A test for analogy of tropical domed peat deposits,Organic Geochemistry,pp.333-342.
- Faiz M.M.,(1992), Porosity and gas sorption capacity of some eastern Australian Coals in relation to coal rank and Composition, Int. Symp on CBM,Australia,pp.9-20.
- Fassett J.E,(1971),Geology and Fuel Resources of Fruitland Formation,US Geological Survey Professional paper 676,pp76.
- Fassett J.E.(1988),Geology and CBM Resources in the northern San Juan basin, Colorado, Rocky Mountain Association of Geologists. pp.351.

- Fisher W.L.,(1970),Delta System in Exploration for Oil & gas & coal,Bureau of Economic Geology,Austin,pp102.
- Flores R.M.,(1981),Coal Deposition in Fluvial paleoenvironment of Powder River Basin,Society of Paleontologists special Publ. v.31,pp.169-190.
- Flores R.M.,(1991), Cretaceous and Tertiary Coals of Rocky Mountain and Great plain Regions, Economic Geology ,U.S.,pp.547-571.
- Flores R.M.,(1991),Coal bed Gas Potential and Reservoir heterogeneity- Powder River basin, Rocky Mountain Association of Geologists. pp.26
- Gahmov E.M,(1988),Sources and Mechanisms of formation of gaseous hydrocarbons in Sedimentary rocks, Chemical Geology,Vol.71,pp77-96.
- Gardener J.S.,(1980),Litho-Density Log Interpretation, SPWLA Annual Logging Smp.
- Gentzis T et al.,(2008),Coal bed Methane producibility from the Mannville Coals in Alberta, Canada, Science Direct, Int Jour. Coal Geology,pp237-249.
- Ghosh S et al.,(1977),Regional Metamorphism of Coal in major Coal fields of Damodar Valley Region, Int. Gond. Symp. Calcutta, pp. 286-298.
- Ghosh S,Mukhopadhyay A,(1985) Tectonic history of Jharia Basin,Min. Geol Metall. Society of India,pp.35-58
- Hajra P.N. et al.,(2003),A critical Assessment of CBM Potential of India, Proceeding of Petrotech-2003.

- Hanson W.B.(1990),Chemistry of Western interior USA Coal bed gases based upon desorption of sub-surface coal samples. American Association of Petroleum Geologists.Vol.74,pp.1326.
- Highes J.D.,(2002),Factors Controlling Coal Seam Gas Production and resource Potential of Canada, Int. CBM Symp,Calgary,pp.17-22.
- Hoffman G.L.,(1982),Logging Handbook for Coal Exploration,The Coal mining research Institute,Canada,pp.270.
- Hunt J.M,(1979), Petroleum Geochemistry and Geology, W.H. Freeman & Co, pp617.
- Hunt J.M,(1991),Generation of gas & oil from coal and other terrestrial organic matter, Organic Geochemistry.
- James P. et al.,(2001),Coal bed Methane Experiences in India, Oil & Gas Conf., Australia, pp155-162.
- Jennings G.L.et al.,(1997),CBM resource potential: San Juan Basin, Proceeding of the 1997 International CBM Symposium,Alabama,pp.557-565.
- Johnson D.P., (1988), Geological Assessment of Natural gas from Coal seams in Bowen Basin, Department of Geology Report, Townsville, pp.80.
- Johnston ,D,J,(1990),Thoroughly evaluate Coal beds with logging data: Oil & Gas Journal, pp45-49.
- Johnston, D,J and Scholes P.L,(1991),Predicting cleats in coal seam from mineral and maceral composition with wireline logs, Geologists guide book, pp.123-136.

- Johnston, D.J and Scholes P.L., (1990), Coalbed Methane applications of wireline logs, AAPG studies in Geology, pp287-302.
- Jones A.H, Bell G.J., (1988), A Review of Coal bed Methane Well completion & Production, pp169-181.
- Katz D.L. et al., (1959), Handbook of Natural Gas Engineering, McGraw-Hill, New York, pp.298.
- Kelafant J.R., (2000), A review of Coal bed Methane Resources and Activity, Indian Jour. Of Pet. Geology.
- Kelso B.S., (1988), A geologic Analysis of Fruitland Formation coal and CBM Resources of San Juan Basin, Rocky Mountain Association of Geologists, pp.69-79
- Kelso B.S, Lombardi T.E., (1995), Drilling & Production Statistics for Major U.S. Coalbed Methane Reservoirs, Gas Research Institute Report, pp.50.
- Khorasani G.K., (1987), Gas prone coals of Wallon Coal Measures, Surat Basin, Australia, Geological Society Special Publication, pp.303-310.
- Kim A.G et al., (1977), Estimating Bituminous Coal from Adsorption Data, Bureau of Mines Report, U.S, pp.22
- Kissell F.N, McCulloch C.M., (1973), The Direct Method Determining Methane Content of Coal bed for ventilation Design, Bureau of Mines Report, U.S, pp.17.
- Laubach S.E., (1998), Characteristics and Origin of Coal Cleats: a Review, International Journal of Coal Geology. Vol 35, pp.175-207.

- Lamberson M.N. and Bustin R.H.,(1993), Coalbed Methane Characteristics: British Columbia, AAPG Bull.77,pp.2062-2076.
- Langenberg C.W.,(2006),Regional Evaluation of Coal bed Methane potential of Canada, Int. Jour. Of Coal Geology, pp. 114-128.
- Law B.E.,(1992),Thermal maturity parameters of San Juan Basin,Geological Society of America Bulltin.
- Law B.E.,(1993),The Relationship between Coal Rank and Cleat Spacing,Int. CBM Symp.,pp435-442.
- Law B.E, Rice D.D and Flores R.M,(1991),Coal bed Methane gas accumulation in Powder River Basin. Association of Geologists's Workbook.
- Levine J.R.,(1993), Coalification: the evolution of Coal as Source Rock, AAPG Bulletin 38,pp 37-42.
- Levy J.H.,(1997),Methane capacities of Bowen Basin Coals related to CBM, Fuel 76, pp. 813-819.
- Lock G.A., (1971), Natural Gamma Ray spectral Logging, The Log Analyst Vol. 5
- Logan T.L,(1993),Western Cretaceous Coal seam Project, Review of CBM Technology.
- Mandal A.K., and Ghosh Ashim,1997,Approach paper on Coal bed methane Evaluation & Exploration, ONGC Report.
- MartiniA.M.,(1994),Hydro geochemistry of the Antrim Shale in Michigan Basin,Geological Survey Report.

- Martini I.P. (1985), Cold Climate Peat Formation in Canada and its relevance to Lower Permian Coal Measures of Australia, *Earth Science Reviews*, Vol.22,pp.141-172
- Marty D.G.,(1992),*Ecology and metabolism of Methanogenesis*, Editions Technip.
- Mavor, Matt and Nelson, Charles R., (1997), *Coalbed Reservoir Gas-an Analysis*, Gas Research Institute Pub. pp.263 .
- Mavor M.J., Pratt T.J,(1995),*Quantitative Evaluation of Coal Seam Gas Content Estimate Accuracy*,Paper SPE 29577,Colorado,pp. 20-22.
- Mavor M.J., Pratt T.J,(1995),*Quantify the Accuracy of Coal Seam Gas Content*, *Petroleum Engineer International*,Vol.68,pp.37-42.
- McCabe P.J,(1991),*Geology of Coal: Environment of Deposition, Economic Geology*, Vol P-2,pp.469-481.
- McCabe P.J,(1992), *Controls on the distribution and Quality of Cretaceous Coals*, Geological Society of America, Special paper 267,pp.418.
- McCulloch C.M,(1975),*Measuring the Methane Content of Bituminous Coal beds*, Bureau of Mines Report,U.S,pp.22
- McLennan J.D,(1995),*A Guide to Determining Coal bed Gas Content*, Gas Research Institute Pub. pp182.
- Meek R.H.,(1993),*The Transition between low-rate and high-rate producing areas of the Fruitland Coal*, AAPG Bulletin. pp.65.

- Mehta V.K.(2003). Physical Characterization of CBM reserves of India. Proc. Of Petrotech'03,9-12.
- Meissner F.F.(1984).Cretaceous and Lower Tertiary coal in sources for gas accumulation in Rocky Mountain area. Rocky Mountain Association of Geologists.
- Michael G.E.,(1993),Geochemical Evaluation of Upper Cretaceous Fruitland Formation coals with respect to thermal maturity, Rocky Mountain Association of Geologists.
- Misra H.K and Cook A.C,(1992),Petrology and Thermal Maturity of Coals in the Jharia Basin: Implication for Oil & gas origin. Int. journal of Coal Geology.
- Moore T.A,(1991),The effect of clastic Sedimentation on organic facies development within a Tertiary sub-bituminous Coal bed, Powder River Basin, U.S.A., Int. Jour. Of Coal Geology,pp.187-209.
- Mullen M,(1988),Log Evaluation in wells drilled for coalbed Methane, Association of Geologists guidebook, pp.113-124.
- Mullen M,(1991),Cased hole Coal Analysis in Producing Gas wells in San Juan Basin-A Case Study, Proc. Symp. in CBM,Alabama,pp373-380.
- Mullen M,(1991), Cleat Detection in Coal beds using Microlog Rocky Mountain Association of Geologists.pp.137-147.
- Nemec W,(1988),Fan Deltas: Sedimentology and Tectonic Settings, Blackie and son Ltd,pp.444

- Norris J.O.,(1980),An in-situ Coal Quality Prediction Techniques,SPE Paper9467,pp. 9
- Olusoga Martins Akintunde, (2004),Monitoring Coal Bed Methane Production: A Case Study from the Powder River Basin, Wyoming. United States of America. Department of Geophysics Stanford University.
- Pashin J.C,(1991), Regional Analysis of the CBM potential of Black Warrior Basin,Geological Survey of Alabama Bulletin .pp.127.
- Patra T.C. et al,(1993),Potential Area of India for CBM,ONGC Published Report.
- Peters J et al,(2001),Development of CBM Resources-Challenges of the new Millennium, Ind. Geol. Congress,Dehradun.
- Prenskey S.E.,(1988),Well log Determination of Ash Content in Fruitland Formation Coals, Colorado, Rocky Mountain Association of Geologists. pp.91-112.
- Radke M.,(1990), Generation and distribution of aromatic hydrocarbons in coals of low rank, Organic Geochemistry,539-563.
- Rathbone R.F,(1993),The effects of depositional environment on vitrinite Fluorescence intensity, Org. Geochemistry 20,pp177-186.
- Rao K.L.N.,(1997),Resource Assessment of Cambay Basin,Int Coalbed Methane Symp,pp.383-395.
- Reeves D.R.,(1971),In-situ Analysis of Coal by bore-hole Logging Techniques. CIM Bulletin Vol.74,pp. 61-69.

- Reid G.W et al.,(1992),Simulation & Economics of CBM Production in Powder River Basin, Rocky Mountain Association of Geologists. pp18-21
- Rice D.D and Claypol G.E,(1981), Generation, accumulation and resource potential of biogenic gas: AAPG Bulletin.
- Rice D.D,(1992); Some Geologic Controls of Coal bed Methane gas generation, US Geological Survey Circular 1070,pp64.
- Rice D.D,(1992);Controls, habitat and resource potential of ancient bacterial gas, Editions Technip,pp.91-118.
- Rice D.D,(1993); Composition and Origin of Coal bed Gas: Hydrocarbons from Coal, AAPG Bulletin. pp 159-184.
- Richardson Sarah E et al,(1991) Seismic applications in coalbed methane exploration and development, Report: university of Calgary.
- Rightmire C.T,(1984), Coalbed Methane Resource, American Association of Petroleum Geologists,Tulsa,pp.1-13.
- Saghafi S,(1989), A Computer Simulation of Gas Flow in Coal Seam and its Application, American Association of Petroleum Geologists, pp.9.
- Sappal K.K.,(1987), Petrographic Characterisation of certain Permian Coals of Australia and India. Proc. Nat. Sem. Coal Res.India,pp.461-468.
- Sawyer W.K.,(1987),Using Reservoir Simulation & Field data to define Mechanism for CBM, International CBM Symp. pp.295-307.
- Schraufnagel R.A. Hill D.G,(1994),Coal bed Methane-A Decade of Success, Paper SPE,28581,Louisiana,pp.25-28.

- Schwochow. S.(1997),The International Coal Seam Gas Report,Cairn Point Publishing Inc.,Denver,pp.9.
- Sharma D.D.,(2003),Review of the Coal Resources in India & their Exploration Strategy, Jour. Geol. Society of India, Vol 61,pp.387-402.
- Singh et al,(2002),Perception of Lignite Bed Methane(LBM) in India, APG Conference, Mussorie, pp317-321.
- Smith T.N.,(1995),Coal bed Methane Potential for Alaska and Drilling Results, 9501,Proceedings INTERGAS'95,pp.1-21.
- Stach E, Teichmuller R,(1982),Stach's textbook of Coal Petrology: Berlin.
- Styant W.B.,(1983), Sedimentology of Fraser River Delta Peat deposits,a modern analogue for some deltaic coals,International Coal Geology Vol.3,pp.101-143.
- Thakur P.C,(1988), Horizontal Drilling Technology for Coal Seam Methane Recovery, Proc. Of Fourth Int.Mine Ventilation Congress, Brisbane, Australia, pp.6.
- Thimons B,(1973),Diffusion of Methane through coal, Fuel 52.,274-280.
- Thomas B.M,(1982),Land plant source rocks for oil & their Significance in Australian Basin, Austr. Petr. Exploration Vol.22, pp.166-178.
- Tilton J.G.,(1980),Gas from coal deposit,Proc. Of National Research Council Meeting,pp.30.
- Tissot B.P.,Welte D.H,(1984),CBM Formation and Occurrence, Formation of Gas, pp.699.

- Trevits M.A.,(1985),Case studies of Long Term Methane Extraction from Coal , Jour.of Mining Engineers,pp.7
- Tyler R et al.,(1995),Coal bed Methane potential of the Greater Green River Basin-Wyoming and Northwest Colorado, Paper 9502.Proceeding INTERGAS'95,Alabama,pp.23-38.
- Ulery J.P,(1991),The Modified Direct method of Gas content Determination, Proceeding of CBM Symp.,Alabama,pp.489-500.
- Vander Sommen et al.,(1955),Chemical Structure and Properties of Coal-Sorption Capacity for Methane,Fuel,Vol.34,pp.444-448.
- Verma R.K. et al.,(1974),Gravity Survey over Jharia Coalfield of India, Geophys. Res. Bull, pp 165-175.
- Warwick P.D.,(1988),Depositional Models for Two Tertiary coal bearing sequences in the Powder River Basins, Wyoming, Journal of the Geological Society of London,Vol.145,pp.613-620.
- Wyman R.E.,(1984),Gas Resources in Elmworth Coal seams-A case study,AAPGBull.Vol.38,pp.173-188.
- Yalcin E, (1991), Methane Capacities of Zonuldak Coals and the factors affecting Methane Adsorption, Mining Science & Technology 13,pp215-222.
- Yee D,(1993),Gas Sorption in Coal and Measurement of gas Content in Coal, AAPG Bull.38, pp203-218.
- Westcott W.A.,(1980),Fan-delta Sedimentology and tectonic setting-Southeast Jamaica, American Association of Petroleum Geologists,Vol.64,pp 374-399.

- Zhang Y.G.(1985).Concepts on the Generation and Accumulation of Biogenic Gas, *Journal of Petroleum Geology*.Vol.8.pp.405-422.
- Zhang Y.G,(1991).Generation, accumulation and preservation of natural gas . Nanjing, River and Sea University Press, pp.176.