The Society of Petroleum Evaluation Engineers
SPEE Denver Chapter announces its February Luncheon Meeting.
(Members and Guests are cordially invited to attend.)

Wednesday, February 8, 2017

Dr. He Zhang
Sr. Petroleum Engineer, Ryder Scott Petroleum Consultants

Will be speaking on:
A New Empirical Analysis Technique for Shale Reservoirs

LUNCHEON STARTS AT 11:30 A.M.
(A plate lunch will be served.)
PRESENTATION BEGINS AT NOON

The Denver Athletic Club
3rd Floor, The New Petroleum Club Room
1325 Glenarm Place (14th and Glenarm) Denver CO 80204
Parking flat rate $7.00 on space available basis

Cost: $25.00 per Person
Special pricing of $25 continued into 2017. Normally $35.
(Credit Card, Cash or Check made out to ‘SPEE Denver Chapter’)

Please RSVP by Noon Monday, February 6, 2017

RSVP Registration Options:
1.) RSVP by email to Mike Flanigan SPEE Treasurer at denspee@yahoo.com to sign up and then pay by cash or check at the door. Please provide a name and company for each reservation. Checks should be made out to ‘SPEE Denver Chapter’. OR
2.) RSVP and simultaneously pay by credit card online at
https://secure.spee.org/civicrm/event/info?reset=1&id=125. If this link does not work,
alternatively go to www.spee.org then select ‘Local Chapters’, then ‘Denver’, then ‘Register
Now’.

Abstract: In the original Arps paper, the b-factor of the hyperbolic equation was assumed to be a constant and
limited to values less than or equal to 1.0. However, many literature papers and field observations have shown
that the b-factor changes with time in shale wells and, in many cases, can be well above 1.0, especially during
the transient flow period. As a result, evaluators have modified the original DCA to incorporate a b-factor
larger than 1.0 and a minimum exponential decline rate (D_{min}) at the late-time life in shale production
predictions. Zhang, Rietz, and Lee, et. al presented the Extended Exponential Decline Curve Analysis
(EEDCA) in 2015 as an alternative method with advantages. This presentation will further discuss the transient
b-factor effect and how to calculate the value of D_{min}. (Reference is made to SPE paper SPE-175016-MS, An
Empirical Extended Exponential Decline Curve for Shale Reservoirs, Zhang, Rietz, Cagle, and Lee presented at
the SPE ATCE 9/2015, Houston.)

Speaker Bio.: He Zhang is a senior petroleum engineer at Ryder Scott Petroleum Consultants, with his
expertise in oil and gas reserve evaluation. Previously he worked for Schlumberger. Zhang has published over
40 technical papers, and he serves as an associate editor and reviewer for multiple journals. He has also held
chair position or served as a committee member at multiple international conferences including SPE Annual
Technical Conference & Exhibition. Zhang is currently also an adjunct in teaching petroleum engineering
courses at University of Houston-Victoria. Zhang has BS degrees in Chemistry and Computer Application
from University of Science and Technology of China, and a PhD degree in petroleum engineering from Texas
A&M University. He is a registered Professional Engineer in the State of Texas, an SPE Certified Petroleum
Engineer, and an associate member of the Society of Petroleum Evaluation Engineers (SPEE).

About SPEE: http://www.spee.org SPEE was formed in 1962 as a professional, non-profit organization
bringing together specialists in the evaluation of petroleum and natural gas properties. SPEE continues today to
be strongly committed to providing educational and other services to its members and to the oil and gas
industry, and to promoting the profession of petroleum evaluation engineering.

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