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| 1. Record Nr. | UNINA990005776750403321 |
| Autore | Jashemski, Wilhelmina Mary Feemster |
| Titolo | The origins and history of the proconsular and the proprætorian imperium to 27 B.C. 0 / Wilhelmina Feemster Jashemski |
| Pubbl/distr/stampa | Roma : L'Erma di Bretschneider, 1966 |
| Descrizione fisica | VIII, 174 p. ; 25 cm |
| Collana | Studia historica ; 30 |
| Locazione | FLFBC |
| Collocazione | 930 ST. HIS. 30
930 ST. HIS. 30 BIS |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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- | | |
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| 2. Record Nr. | UNINA9910457055203321 |
| Autore | Speight James G |
| Titolo | Enhanced recovery methods for heavy oil and tar sands [[electronic resource] /] / James G. Speight |
| Pubbl/distr/stampa | Houston, TX, : Gulf Pub. Co., c2009 |
| ISBN | 0-12-799988-4
1-61583-155-X |
| Descrizione fisica | 1 online resource (369 p.) |
| Disciplina | 622/.33827 |
| Soggetti | Enhanced oil recovery
Petroleum
Oil sands
Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |

Nota di contenuto

Front Cover; Enhanced Recovery Methods for Heavy Oil and Tar Sands; Copyright Page; Table of Contents; LIST OF FIGURES; LIST OF TABLES; PREFACE; CHAPTER 1. DEFINITIONS; 1.1 HISTORY; 1.2 PETROLEUM; 1.3 HEAVY OIL; 1.4 TAR SAND BITUMEN; 1.5 VALIDITY OF THE DEFINITIONS; 1.6 CONCLUSIONS; 1.7 REFERENCES; CHAPTER 2. ORIGIN AND OCCURRENCE; 2.1 ORIGIN OF PETROLEUM AND HEAVY OIL; 2.2 RESERVOIRS; 2.3 RESERVES; 2.4 PRODUCTION; 2.5 OIL PRICING; 2.6 REFERENCES; CHAPTER 3. RESERVOIRS AND RESERVOIR FLUIDS; 3.1 RESERVOIRS; 3.2 CLASSES OF FLUIDS; 3.3 EVALUATION OF RESERVOIR FLUIDS; 3.4 PHYSICAL (BULK) COMPOSITION AND MOLECULAR WEIGHT; 3.5 RESERVOIR EVALUATION; 3.6 REFERENCES; CHAPTER 4. PROPERTIES; 4.1 PHYSICAL PROPERTIES; 4.2 THERMAL PROPERTIES; 4.3 METALS CONTENT; 4.4 REFERENCES; CHAPTER 5. EXPLORATION AND GENERAL METHODS FOR OIL RECOVERY; 5.1 EXPLORATION; 5.2 PRIMARY RECOVERY (NATURAL) METHODS; 5.3 SECONDARY RECOVERY; 5.4 ENHANCED OIL RECOVERY; 5.5 REFERENCES; CHAPTER 6. NONTHERMAL METHODS OF RECOVERY; 6.1 PRIMARY RECOVERY (NATURAL) METHODS; 6.2 SECONDARY RECOVERY METHODS; 6.3 ENHANCED OIL RECOVERY METHODS; 6.4 OIL MINING; 6.5 REFERENCES; CHAPTER 7. THERMAL METHODS OF RECOVERY; 7.1 HOT-FLUID INJECTION; 7.2 STEAM-BASED METHODS; 7.3 IN SITU COMBUSTION PROCESSES; 7.4 OTHER PROCESSES; 7.5 IN SITU UPGRADING; 7.6 REFERENCES; CHAPTER 8. UPGRADING HEAVY OIL; 8.1 SURFACE UPGRADING; 8.2 IN SITU UPGRADING; 8.3 REFERENCES; APPENDIX A: CONVERSION FACTORS; GLOSSARY; INDEX

Sommario/riassunto

Recent oil price fluctuations continue to stress the need for more efficient recovery of heavy oil and tar sand/bitumen resources. With conventional production steadily declining, advances in enhanced recovery will be required so that oil production can be extended and reservoirs last longer. A practical guide on heavy-oil related recovery methods is essential for all involved in heavy oil production. To feed this demand, James Speight, a well-respected scientist and author, provides a must-read for all scientists, engineers and technologists that are involved in production enhancement.
