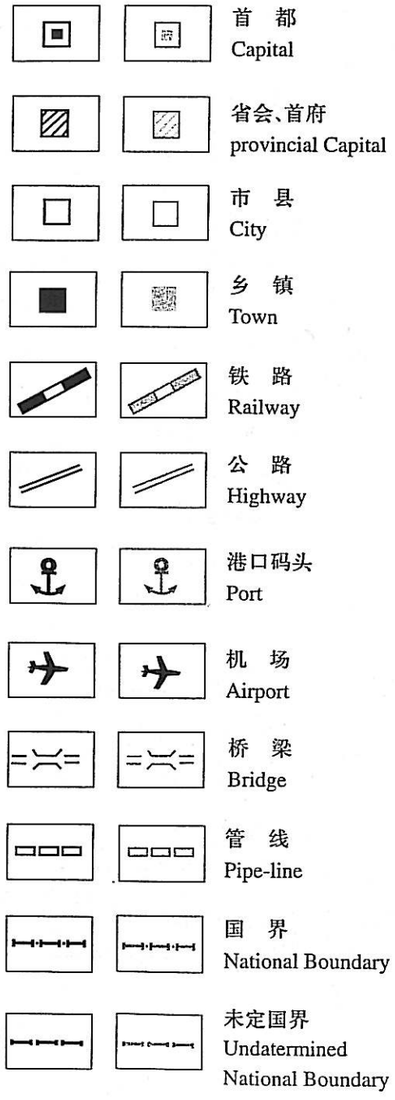
石油图例

附录C 图例

参照石油天然气地质编图规范及图式（ZB E11 003—90）编制以下标准图例。

C1 地理底图



C2 构造图

盆地边界
Basin Boundary

一级构造分区线
First Order Structure Line

二级构造分区线
Secondary Order
Structure Line

三级构造分区线
Third Order Structure Line

鼻状构造
Nose Structure

断 鼻
Faulted Nose Structure

半背斜
Monoanticline

背 斜
Anticline

等值线
Contour Line

辅助等直线
Auxiliary Contour Line

资料不足等值线
Contour Line
By Poor Data

计算圈闭面积等值线
Contour Line used in
Trap Area Calculation

地震测线
Seismic Line

测线号、炮号
No.Line & S.P

砂 体
Sand Body

泥 拱
Mud Diapir

礁
Reefs

正断层
Normal Fault

逆断层
Inverse Fault

平推断层
Wrench Fault

尖灭线
Pinchout Line

剥蚀线
Denulation Line

超覆线
Onlapping Line

断层复杂带
Complex Fault Zone

区块界线及编号
Block Boundary &
Turning Point Numbers

评价研究区边界线
Boundary For
Evaluation Area

地震三维工区
3D Seismic Surveying Area

地震二维工区
2D Seismic Surveying Area

C3 各类井

预探井
Wildcat well

评价井
Appraisal well

油 井
Oil well

气 井
Ges well

油显示井
Oil show well

气显示井
Gas show well

干 井
Dry Hole

正钻井
Drilling well

设计井
Proposal well

报废井
Abandoned well

C4 油气田及有利圈闭

油 田
Oil Field

气 田
Cas Field

含油构造
Oil-Bering Structure

含气构造
Gas-Bering Structure

含油气有利圈闭
Favorable Oil and
Gas Trap

C5 油藏剖面

油 层
Oil Layer

可能油层
Possible Oil Layer

油水同层
Syngentic
Oil-water Layer

含油水层
Oil-bearing water Layer

气 层
Gas Layer

可能气层
Possible Gas-lauer

气水同层
Syngenetic Gas-Water
Layer

水 层
Water-Layer

C6 岩石

表土和积土层 Soil-cap and loam

贝壳层 Shell layer

腐植土层 Muck layer

粉砂质粘土 Silty clay

泥质粉砂 Argillaceous silt

巨砾岩 Boulderstone

粗砾岩 Cobblestone

中砾岩 Pebblestone

细砾岩 Microconglomerate

泥砾岩 distostrome

角砾岩 Breccia

灰质砾岩 Calcareous Conglomerate

灰质角砾岩 Calcareous Breccia

铁质砾岩 Ferruginous Conglomerate

硅质砾岩 Siliceous Conglomerate

凝灰质砾岩 Tuffaceous Conglomerate

凝灰质角砾岩 Tuffaceous Breccia

凝灰质砂砾岩 Tuffaceous Glutenite

砂砾岩 Glutenite

泥质细砾岩 Argillaceous Microconglomerate

粗砂岩 Coarse Sandstone

中砂岩 Medium Sandstone

细砂岩 Fine Sandstone

粉砂岩 Siltstone

中-细砂岩 Medium-Fine Sandstone

粉-细砂岩 Silty-Fine Sandstone

鲕状砂岩 Oolitic Sandstone

砾状砂岩 Pebble Sandstone

含砾粗砂岩 Conglomeratic Coarse Sandstone

含砾中砂岩 Conglomeratic Medium Sandstone

含砾细砂岩 Conglomeratic Fine Sandstone

含砾中-细砂岩 Conglomeratic Medium-Fine Sandstone

含砾粉-细砂岩 Conglomeratic Silty-Fine Sandstone

含砾粉砂岩 Conglomeratic Muddy siltstone

含砾泥质粗砂岩 Conglomeratic Muddy Coarse Sandstone

含砾泥岩中砂岩 Conglomeratic Muddy Medium Sandstone

含砾泥岩细砂岩 Conglomeratic Muddy Fine Sandstone

含砾泥岩粉砂岩 Conglomeratic Muddy Siltstone

海绿石粗砂岩 Glauconitic Coarse Sanstone

海绿石中砂岩 Glauconitic Medium Sanstone

海绿石细砂岩 Glauconitic Fine Sanstone

海绿石粉砂岩 Glauconitic Siltstone

石英砂岩 Quartzose Sandstone

长石砂岩 Arkose

长石石英砂岩 Feldspathic Quartzose Sandstone

高岭土质粗砂岩 Kaolinic Coarse Sandstone

高岭土质中砂岩 Kaolinic Medium Sanstone

高岭土质细砂岩 Kaolinic Fine Sanstone

高岭土质粉砂岩 Kaolinlic Fine Siltstone

泥质粗砂岩 Argillaceous Coarse Sandstone

泥质中砂岩 Argillaceous Medium Sandstone

泥质细砂岩 Argillaceous Fine Sandstone

泥质粉砂岩 Calcareous Siltstone

灰质粗砂岩 Calcareous Coarse Sandstone

灰质中砂岩 Calcareous Medium Sandstone

灰质细砂岩 Calcareous Fine Sandstone

灰质粉砂岩 Calcareous Siltstone

白云质粗砂岩 Dolomitic Coarse Sandstone

白云质中砂岩 Dolomitic Medium Sandstone

白云质细砂岩 Dolomitic Fine Sandstone

白云质粉砂岩 Dolomitic Siltstone

石膏质粗砂岩 Gypsiferous Coarse Sandstone

石膏质中砂岩 Gypsiferous Medium Sandstone

石膏质细砂岩 Gypsiferous Fine Sandstone

石膏质粉砂岩 Gypsiferous Siliceous

硅质粗砂岩 Siliceous Coarse Sandstome

硅质中砂岩 Siliceous Medium Sandstone

硅质细砂岩 Siliceous Fine Sandstone

硅质粉砂岩 Siliceous Siltstone

硅质石英砂岩 Siliceous Quartzose Sandstone

沥青质粗砂岩 Bituminous Coarse Sandstone

沥青质中砂岩 Bituminous Medium Sandstone

沥青质细砂岩 Bituminous Fine Sandstone

沥青质粉砂岩 Bituminous Siltstone

碳质粗砂岩 Carbonaceous Coarse Sandstone

碳质中砂岩 Carbonaceous Medium Sandstone

碳质细砂岩 Carbonaceous Fine Sandstone

碳质粉砂岩 Carbonaceous Siltstone

凝灰质粗砂岩 Tuffaceous Coarse Sandstone

凝灰质中砂岩 Tuffaceous Medium Sandstone

凝灰质细砂岩 Tuffaceous Fine Slitstone

凝灰质粉砂岩 Tuffaceous Siltstone

玄武质粗砂岩 Basaltic Coarse Sandstone

玄武质中砂岩 Basaltic Medium Sandstone

玄武质细砂岩 Basaltic Fine Sandstone

玄武质粉砂岩 Basaltic Siltstone

铁质粗砂岩 Ferruginous Coarse Sandstone

铁质中砂岩 Ferruginous Medium Sandstone

铁质细砂岩 Ferruginous Fine Siltstone

铁质粉砂岩 Ferruginous Siltstone

含磷粗砂岩 Phosphatic Coarse Sandstone

含磷中砂岩 Phosphatic Medium Sandstone

含磷细砂岩 Phosphatic Fine Sandstone

含磷粉砂岩 Phosphatic Siltstone

含角砾粗砂岩 Breccia Coarse Sandstone

含角砾中砂岩 Breccia Medium Sandstone

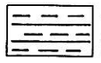

含角砾细砂岩
Breccia
Fine Sandstone


含角砾粉砂岩
Breccia Siltstone


粘　土
Clay

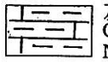

白垩土
Chalky Clay


膨润土、坩子土
Bentonite

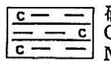

泥　岩
Mudstone


页　岩
Shale

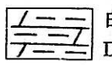

油页岩
Oil Shale

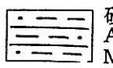

灰质泥岩
Calcareous
Mudstone


钙质页岩
Calcareous Shale

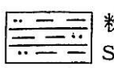

碳质泥岩
Carbonaceous
Mudstone


碳质页岩
Carbonaceous Shale


白云质泥岩
Dolomitic Mudstone


砂质泥岩
Arenaceous
Mudstone

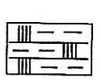

砂质页岩
Arenaceous Shale

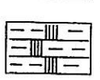

粉砂质泥岩
Slity Mudstone

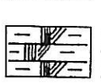

粉砂质页岩
Silty Shale

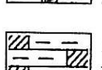

含砂泥岩
Sandy Mudstone

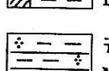

含砾泥岩
Pebbly Mudstone

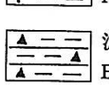

石膏质泥岩
Gypsiferous Mudstone


含膏泥岩
Gypso-Mudstone

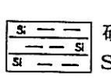

含膏、含盐泥岩
Gypso-Mudstone
Saliferous Mudstone

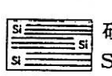

盐质泥岩
Halopelite

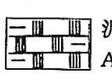

芒硝泥岩
Mirabilite Mudstone

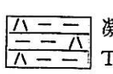

沥青质泥岩
Bituminous Mudstone

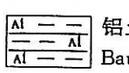

沥青质页岩
Bituminous Shale

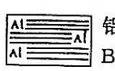

硅质泥岩
Siliceous Mudstone

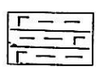

硅质页岩
Siliceous Shale


泥膏岩
Argillaceous Gypsum


凝灰质泥岩
Tuffaceous Mudstone


铝土质泥岩
Bauxtic Mudstone


铝土质页岩
Bauxitic Shale

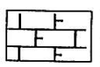

玄武质泥岩
Basaltic Mudstone

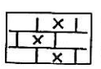

沉凝灰岩
Tuffite

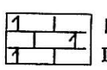

白云岩化沉凝灰岩
Dolomitic Tuffite


石灰岩
Limestone


含白云质灰岩
Dolomitic Limestone


含泥灰岩
Argillaceous
Limestone


含白垩灰岩
Chalky Limestone


白云质灰岩
Dolomitic Limestone

沥青质灰岩
Bituminous
Limestone

硅质灰岩
Siliceous Limestone

石膏质灰岩
Gypsiferous
Limestone

泥灰岩
Marl

泥质灰岩
Argillaceous
Limestone

泥质条带灰岩
Argillaceous
Banded Limestone

碳质灰岩
Carbonaceous
Limestone

砂质灰岩
Arenaceous
Limestone

页状灰岩
Lamellar Limestone

薄层状灰岩
Flaggy Limestone

燧石条带灰岩
Chert-Banded
Limestone

燧石结核灰岩
Chert Nodular
Limestone

溶洞灰岩
Karst Limestone

角砾状灰岩
Brecciated
Limestone

竹叶状灰岩
Wormkalk
Limestone

团块状灰岩
Lumpy Limestone

针孔状灰岩
Pinhole Limestone

豹皮灰岩
Porphyritic
Limestone

鲕状灰岩
Oolitic Limestone

假鲕状灰岩
Pseudo-Oolitic
Limestone

葡萄状灰岩
Botryoidal
Limestone

瘤状灰岩
Knotty Limestone

结晶灰岩
Crystalline
Limestone

碎屑灰岩
Calclithite
Limestone

生物灰岩
Biolithite Limestone

介壳灰岩
Coquina Limestone

介形虫灰岩
Ostracode Limestone

含螺灰岩
Spiro-Limestone

藻灰岩
Algal Limestone

白云岩
Dolomite

含灰质白云岩
Calcareous Dolomite

含泥白云岩
Argillaceous Dolomite

灰质白云岩
Calcareous Dolomite

硅质白云岩
Sillceous Dolomite

石膏质白云岩
Gypsferous Dolomite

凝灰质白云岩
Turffaceous Dolomite

泥质白云岩
Argillaceous Dolomite

泥质条带白云岩
Argillaceous
Banded-Dolomite

砂质白云岩
Arenaceous Dolomite

竹叶状白云岩
Edgewise Dolomite

角砾状白云岩
Brecciated Dolomite

针孔状白云岩
Pinhole Dolomite

鲕状白云岩
Oolitic Dolomite

假鲕状白云岩
Pseudo-Oolitic
Dolomite

葡萄状白云岩
Botryoidal
Dolomite

燧石条带白云岩
Chert-
Banded Dolomite

燧石结核白云岩
Chert Nodular
Dolomite

藻云岩
Algal Dolomite

硅、钙、硼石(绿豆岩)
Silicon,
Calcium,Boron

硅质岩
Siliceous Rock

磷块岩
Phosphorite

铝土岩
Allite

锰矿层
Manganese Layer

黄铁矿层
Pyrite Layer

铁矿层
Iron Layer

菱铁矿层
Siderite Layer

赤铁矿层 Hematite Layer
煤 层 Coal Layer
石膏层 Gypsum Layer
盐 岩 Salt Rock
钾 盐 Potassium Salt
含镁盐岩 Magnesian Salt
含膏盐岩 Gypsiferous Salt Rock

膏盐层 Gypso-salt Bed
钙芒硝岩 Calcareous Mirabilite Rock
杂卤石 Polyhalite
燧石层 Chert Layer
断层泥 Fault Clay
断层角砾岩 Fault Breccia
介形虫层 Ostracode Layer

砂质介形虫层 Sandy Ostracod Layer
泥质介形虫层 Argillaceous Ostracod Layer
含 灰 Limy
含灰砾 Limy Gravel Bearing
含泥砾 Muddy Gravel Bearing
含介形虫 Ostracod-Bearing
含 铁 Ferruginous

超基性侵入岩 Ultrabasic Intrusive Rock
基性侵入岩 Basic Intrusive Rock
中性侵入岩 Neutral Intrusive Rock
酸性侵入者 Acidic Intrusive Rock
橄榄岩 Peridotite
辉石岩 Pyroxenite
辉长岩 Gabbro
苏长岩 Norite
斜长岩 Anorthosite

辉绿岩 Diabase
闪长岩 Diorite
正长岩 Syenite
闪长玢岩 Dioritic Porphyrite
角闪岩 Amphibolite
花岗岩 Granite
煌斑岩 Lamprophyte
云煌岩 Minette
伟晶岩 Pegmatite

基性喷发岩 Basic Effusive Rock
中性喷发岩 Neutral Effusive Rock
酸性喷发岩 Acidic Effusive Rock
玄武岩 Basalt
安山玄武岩 Andesite Basalt
安山岩 Andesite
安山玢岩 Andesitic Porphyrite
粗面岩 Trachyte
安山粗面岩 Andesitic Trachyte

流纹岩 Rhyolite
流纹斑岩 Rhyolitic-Porphyry
英安岩 Dacite
英安斑岩 Dacitie Porphyry
凝灰岩 Tuff
集块岩 Agglomerate
火山角砾岩 Volcanic Breccia
变质岩 Metamorphic Rock
变质砂岩 Metasandstone
变质砾岩 Metamorphic Conglomerate

碎裂岩 Kataclastics
构造角砾岩 Dynamic Breccia
糜棱岩 Mylonite
板 岩 Slate
硅质板岩 Siliceous Slate
绿泥石板岩 Chlorite Slate
碳质板岩 Carbonaceous Slate
蛇纹岩 Rhyolite
大理岩 Marble
千枚岩 phyllite

绢云千枚岩 Sericite Phyllite
绿泥千枚岩 Chlorite Phyllite
片 岩 Schist
石英片岩 Quartz-Schist
黑云片岩 Biotite Schist
绿泥片岩 Chlorite Schist
片麻岩 Gneiss
花岗片麻岩 Granite Gneiss
石英岩 Quartzite
混合岩 Migmatite

C7 矿物

黄铁矿 Pyritek
方解石 Calcite
白云石 Dolomite
铁锰结核 Ferro-manganese Nodule
自生石英 Authigenic Quartz
方解石脉 Calcite Vein

石英脉 Quartz Vein
石膏脉 Gypsum Vein
白云岩脉 Dolomite Vein
沥青脉 Bitumen Vein
沥青包裹体 Bituminous Inclusion Enclave
磷灰岩 Apatite

石 膏 Gypsum
菱铁矿 Siderite
盐 Salt
硼砂 Borax
重晶石 Barite
杂卤石 Polyhalite

C8 化石

放射虫 Radiolaria
有孔虫 Foraminifer
纺锤虫 Fusuilinid
海绵骨针 Sponge Spicule
海 绵 Sponge
古杯动物 Archaeocyatha
层孔虫 Stromatoporoid
单体四射珊瑚 Mon Tetracoralla
复体四射珊瑚 Multi-Teraccaralla
横板珊瑚 Plate Coral
苔鲜类 Bryozoan
腕足类 Brachiopod
腹足类 Gastropoda
掘足类 Scaphopoda
双壳类(瓣鳃类) Bivalvie (Lamellibranch)
直壳鹦鹉螺(角石)类 Straight-Crust Nautilida
菊石类 Ammonite
竹节石 Tentaculitida
软舌螺 Hyolithita
三叶虫 Trilobita
叶肢介 Estheria
介形类 Ostracoda
昆 虫 Insect
海林檎 Cystoidea
海 蕾 Blastoidea
海百合 Crinoid
海百合茎 Crinoidal Stem
海 胆 Echinoid
海 星 Stelleroidea
笔 石 Graptolite
鱼类化石 Fishes Fossil
脊椎动物 Vertebrate
藻 类 Cyanophyta
蓝 藻 Cyanophyta
绿 藻 Green Algae
红 藻 Red Algae
硅 藻 Diatom
轮 藻 Charophyta
叠层石 Stromatolite
柱状叠层石 Chimney Stromatolite
锥状叠层石 Cone Stromatolite
层状叠层石 Layered Stromatolite
古植物化石 Palaeobotanical Fossil
植物枝干化石 Plant Branch Fossil
植物碎片 Plant Debris
碳 屑 Carbonaceous Fragment
孢子花粉 Sporopollen
牙形刺(石) Conodont

遗迹化石 Trace Fossil
化石碎片 Fossil Fragment
完好生物化石 Complete Bio-Fossil
生物碎屑 Biogenie Debris
变质木屑 Metamorphic Wood Debris

C9 沉积相

残积-洪积相 Elubial Talus Facies
滨湖相 Shore Lake Facies
深湖相 Deep Lacustrine Facies
沼泽相 Swamp Facies
半深海相 Bathyal Facies
剥蚀区 Dendation Province
湖岸线 Lakeshore Line
高位体系域 Highstand systems Tract(HST)
山崖-洪积相 Piedmont-alluval Facies
浅湖相 Shallow Lacustrine Facies
湖泊三角洲相 Lacustrine Delta Facies
滨海相 Littoral Facies
深海相 Deep Marine Facies
主要物源方向 Major Source Provenance
海岸线 Coastal Line
海进体系域 Transgressive Systems Tract(TST)
河流相(冲积相) Fluvial Facies (Alluvial Facies)
半深湖相 Semi-Deep Lacustrine Facies
盐湖相 Salt-lake Facies
浅海相 Shallow Marine Facies
三角洲相 Delta Facies
次要物源方向 Secondary Source Provenance
低位体系域 Lowstand systems Tract(LST)

C10 层理构造

水平层理 Horizontal Bedding
交错层理 Cross Bedding
楔状交错层理 Wedge Cross Bedding
爬升层理 Climbing Bedding
波状层理 Wavy Bedding
槽状交错纹理 Trough Cross Bedding
波状交错层理 Wavy Cross Bedding
丘状层理 Hummocky Bedding
斜层理 Oblique Bedding
板状交错纹理 Tabular Cross Bedding
冲洗层理 Washing Bedding
递变层理 Grading Bedding

均匀层理 Homogeneous Bedding

透镜状层理 Lenticular Bedding

曲面平行纹理 Curved Parallel Lamination

平面平行纹理 Planar Parallel Lamination

平面非平行纹理 Planar Nonparallel Lamination

波状非平行纹理 Wavy Nonparllel Lamination

曲面非平行纹理 Curved Nonparallel Lamination

波状平行纹理 Wavy Parallel Lamination

角砾状构造 Brecciated Structure

搅混构造 Disturbed Structure

柔皱构造 Rumpled Structure

虫孔构造 Burrowed Structure

气孔状构造 Stomatal Strueture

均匀状构造 Homogeneous Structure

鸟眼构造 Birds—eye Structure

虫 迹 Worm Trail

透镜体 Lenticular Body

砂质团块 Arenaceous Lump

波 痕 Ripple Mark

泥质团块 Argillaceous Lump

泥质条带 Argillaceous Band

灰质结核 Calcareous Nodule

硅质结核 Siliceous Nodule

灰质条带 Calcareous Band

砂质条带 Arenaceous Band

介形虫条带 Ostracod Band

干 裂 Mud Crack

缝合线 Stylolite

冲刷面 Surface of Scour

平行不整合 Parallel Unconformity

裂 缝 Fracture

不整合 Unconformity

潜 穴 Burrow

局部不整合 Local Unconformity

植 根 Plant Root

变形构造 Deformed Structure

碟状构造 Dish Structure

水下岩脉 Subaqueous Dike HJ Ⅱ

小 断 层 Microfault

泥砾及撕裂屑 Muddy Gravel & Rip-up Fragment

火焰构造 Flame Structure

泥 裂 Mud Crack

化 石 Fossil

负荷构造 Load Structure

生物扰动 Bioturbation

C11 录井含油气产状

饱含油 Oil-Saturated

富含油 Rich Oil

油 浸 Oil Immersion

油 斑 Oil Patch

油 迹 Oil Trace

荧 光 Fluorescence

气 砂 Gas-Bearing Sand

含 气 Gas-Bearing

水 砂 Water-Bearing sand

含 水 Water-Bearing

氧化富含油 Oxidated Rich Oil-Bearing

氧化油浸 Oxidated Oil Immersion

氧化油斑 Oxidated Oil Patch

含气富含油 Rich Oil Layer with Gas-Bearing

油浸含气 Oil Immersion & Gas-Bearing

油斑含气 Oil Patch & Gas -Bearing Layer

水浸富含油 Rich Oil Layer with Water Cutting

水浸油浸 Oil Immersion Layer With Water Cutting

水浸油斑 Oil Patch With Water Cutting

稠油饱含油 Saturated Oil Layer of Heavy Crude

稠油富含油 Rich Oil Layer of Heavy Crude

稠油油浸 Oil Immersion of Heavy Crude

稠油油斑 Oil Patch of Heavy Crude

油 层 Oil Peservoir

差油层 Poor Oil Reservoir

含水油层 Water-Bearing Oil Reservoir

油水同层 Syngenetic Oilt-Water Layer

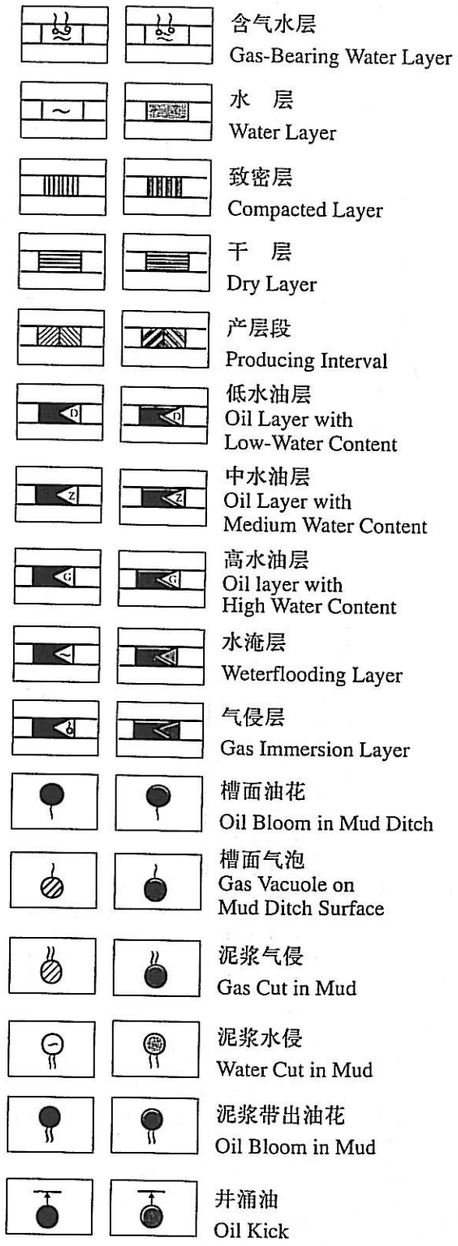
含油水层 Oil-Bearing Aquifer Bed

可能油气层 Possible Oil-Gas Reservoir

油气同层 Syngenetic Oil-Gas Layer

气 层 Gas Layer

气水同层 Syngenetic Gas-Water Layer



含气水层
Gas-Bearing Water Layer

水 层
Water Layer

致密层
Compacted Layer

干 层
Dry Layer

产层段
Producing Interval

低水油层
Oil Layer with
Low-Water Content

中水油层
Oil Layer with
Medium Water Content

高水油层
Oil layer with
High Water Content

水淹层
Weterflooding Layer

气侵层
Gas Immersion Layer

槽面油花
Oil Bloom in Mud Ditch

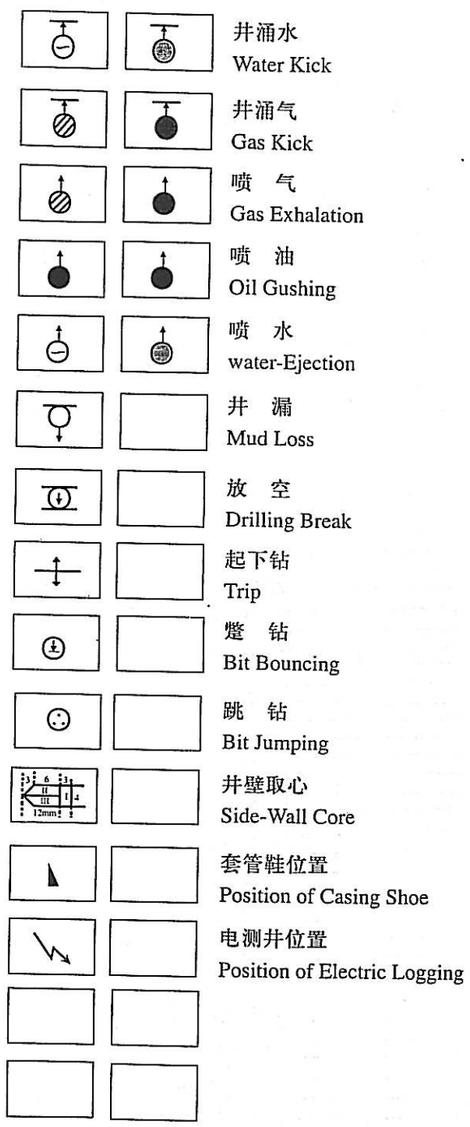
槽面气泡
Gas Vacuole on
Mud Ditch Surface

泥浆气侵
Gas Cut in Mud

泥浆水侵
Water Cut in Mud

泥浆带出油花
Oil Bloom in Mud

井涌油
Oil Kick



井涌水
Water Kick

井涌气
Gas Kick

喷 气
Gas Exhalation

喷 油
Oil Gushing

喷 水
water-Ejection

井 漏
Mud Loss

放 空
Drilling Break

起下钻
Trip

墩 钻
Bit Bouncing

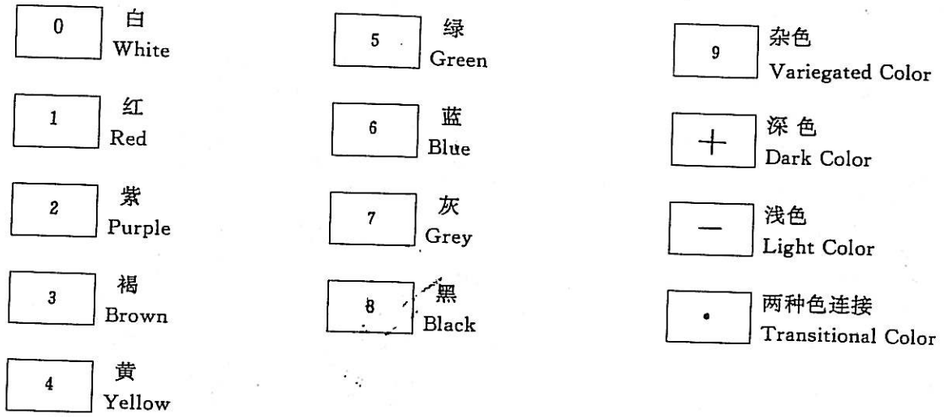
跳 钻
Bit Jumping

井壁取心
Side-Wall Core

套管鞋位置
Position of Casing Shoe

电测井位置
Position of Electric Logging

C12 颜色



0 白 White

1 红 Red

2 紫 Purple

3 褐 Brown

4 黄 Yellow

5 绿 Green

6 蓝 Blue

7 灰 Grey

8 黑 Black

9 杂色 Variegated Color

\+ 深色 Dark Color

\- 浅色 Light Color

• 两种色连接 Transitional Color