

A Survey of Resistivities of Water From Subsurface Formations in West Texas and Southeastern New Mexico

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Part 2

NOTES:

1. "0" in "Depth" column indicates "unknown."
2. All resistivities corrected to 75°F.
3. Number in "Company" column refers to API number. Sample data obtained from DOE files on General Electric Timeshare.
4. Formation listed in order of normal increasing geological age.
5. Decimal numbers in "Location" column define latitude and longitude.

SOURCE ABBREVIATIONS USED IN TABLES:

BAIL = bailer
BTRY = battery
DST = drillstem test
FLLN = flowline
GB = gun barrel
HTR = heater
INJ = injection water
PIT = pit
PROD = produced
SEP = separator
SWAB = swab
TANK = tank
TRTR = treater
WHD = wellhead

--FORMATION--

--COUNTY--

--FIELD--

--COMPANY--

--LEASE NAME--

WELL #

--LOCATION--

DEPTH-
FEETWATER
RES.

SRCE

BELL CANYON

CULBERSON

UNKNOWN

DERECHO CORP.

CONTINENTAL STATE

1

SEC 44, 60 T2, T&P

1715.

1.019

BAIL

GERALDINE FORD

CONOCO

G.E. RAMSEY-38

27

0.

0.088

WHD

WILDCAT

CONOCO

LOGAN

1

1259.

1.366

WHD

CONOCO

PHILLIPS

1

1727.

1.971

GB

CONOCO

SCOTT

1

2646.

0.815

WHD

EDDY

UNKNOWN

#3001520242

1

26-23S-31E

6369.

0.052

DST

MALAGA

G.A. REED

2645.

0.074

WHD

#3001502504

SOUTHERN C

24-24S-28E

2645.

0.075

WHD

LOVING

GRICE

#4230100310

HUMBLE-JOHNSON

31.931,103.627

4695.

0.042

#4230100310

HUMBLE-JOHNSON

31.931,103.627

4759.

0.041

TUNSTALL, E

#4230101049

TXL 17

3

31.857,103.800

3602.

0.108

PECOS

UNKNOWN

AMERICAN TRADING

SHAFFRATH

1

SEC 26, BLK C-2, PSL

5312.

0.040

DST

AMERICAN TRADING

SHAFFRATH

2

SEC 26, BLK C-2, PSL

5215.

0.044

DST

AMERICAN TRADING

SHAFFRATH

2

SEC 26, BLK C-2, PSL

5315.

0.040

DST

AMERICAN TRADING

SHAFFRATH

2

SEC 26, BLK C-2, PSL

5315.

0.039

DST

MCKINNEY

SIBLEY

1

SEC 45, BLK OW, TMRR

4758.

0.040

DST

REEVES

UNKNOWN

AMERICAN TRADING

STATE

9-1

SEC 9, BLK C-7, PSL

4990.

0.055

DST

GERALDINE

CONOCO

G.E. RAMSEY, JR.-19

47

2677.

0.076

WHD

OLDS

#4238900233

TXL 19

2

31.860,103.902

2983.

0.066

WARD

DELAWARE

UNIVERSITY

5059.

0.058

SCOTT

L.M. WATS

31.449,103.345

4922.

0.036

SOUTH PYOTE

CONOCO

W.D. BLACK 87

1

2400.

0.046

HTR

CONOCO

W.O. BLACK 87

1

5000.

0.049

SEP

CONOCO

W.O. BLACK 87

1

5120.

0.042

DST

WILDCAT

GULF OIL CORP.

BANK OF AMERICA "NB" 1

SEC 26, BLK 33, H&TC

5780.

0.066

PRON

CHERRY CANYON

CULBERSON

FORD, W

TEXACO

CULBERSON "V" FEE

2

SEC 21, BLK 58, T&P

4143.

0.111

WHD

CHERRY CANYON

$$\rightarrow R_w = 0.052 \Omega\text{-m @ } 75^\circ\text{F}$$

(measured @ 6369')

26-235-31E
(30-015-20242)

$$\rightarrow 26-225-32E \quad (30-025-33010) \quad \text{BHT} = 111^\circ\text{F @ } 6533'$$

$$\rightarrow 35-225-32E \quad (30-025-33149) \quad \text{BHT} = 118^\circ\text{F @ } 6598'$$

$$R_{w(FM)} = R_{w(\text{other})} * \frac{T_{(\text{other})} + 6.77}{T_{(FM)} + 6.77}$$

$$R_{w(FM)} = 0.052 \Omega\text{-m} * \frac{(75^\circ\text{F} + 6.77)}{(111^\circ\text{F} + 6.77)} = 0.036 \Omega\text{-m}$$

$$R_{w(FM)} = 0.052 \Omega\text{-m} * \frac{(75^\circ\text{F} + 6.77)}{(118^\circ\text{F} + 6.77)} = 0.034 \Omega\text{-m}$$

$\text{CYCN } R_w = 0.035 \Omega\text{-m}$

Well: Texas American Oil
26-235-31E
(30-015-20242)