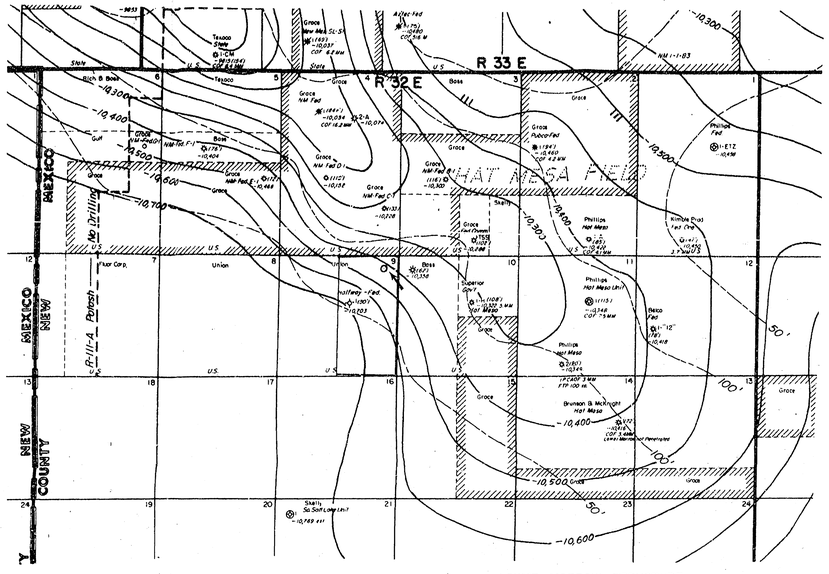
Case No.
7080

Large Exhibits



LOWER MORROW STRUCTURE
C.I. 100' Scale: 1"=2000'

PROPOSED LOCATION

OOLITIC LIME

Schlumberger — SIMULTANEOUS COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY BASS FRANKS
WELL HAT MESA 1
FIELD HAT MESA (MORROW)
COUNTY LEA STATE NEW MEXICO
660' FNL & 660' FWL
Other Services: DLL BHC
Permanent Datum G.L. Elev. 3756
Log Measured From K.B. 18 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev. K.B. 3774
D.F.
G.L. 3756

9931
13700
13800
13900
14000
14100
14200

Schlumberger — SIMULTANEOUS COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY UNION OIL COMPANY OF CALIFORNIER
WELL HALFWAY FEDERAL #1
FIELD HAT MESA
COUNTY LEA STATE NEW MEXICO
1980'FNL & 1980'FEL
9 21-S 32-E
Other Services: DLL CYBERLOOK
Permanent Datum G.L. Elev. 3733
Log Measured From K.B. 18.3+ Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev. K.B. 3751.3
D.F.
G.L. 3733

10223
14000
14100

U.S.G.S. HOBBS, NEW MEXICO
BEST AVAILABLE COPY

14000

14100

14200

14300

14400

14500

DATUM --10,500

TOP LOWER MORROW

GR

CAL

F.R. (GR)

F.R. (CALIPER)

F.R. (CNL)

F.R. (FDC)

V.R.M.C.F. MICROGRAPHICS

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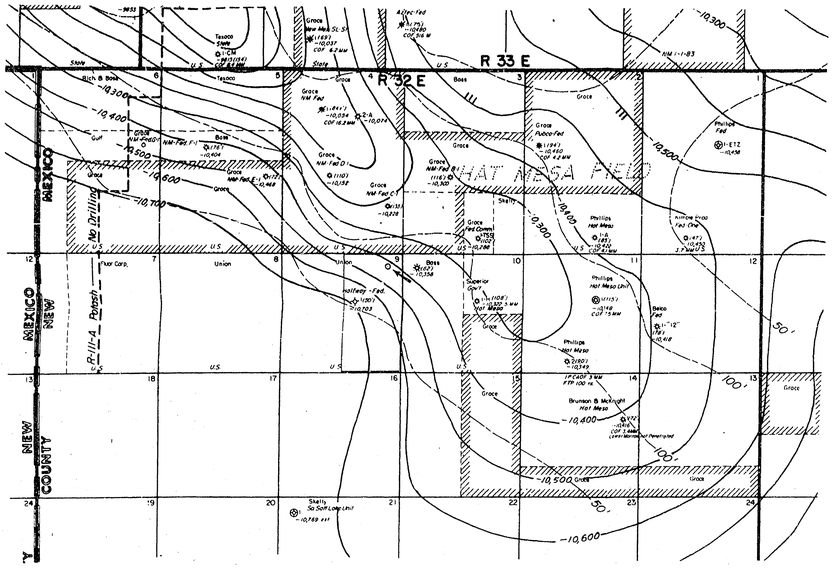

LOWER MORROW STRUCTURE
C.I. 100' Scale: 1"=2000'

PROPOSED LOCATION

OOLITIC LIME

SIMULTANEOUS
Schlumberger
COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY UNION OIL COMPANY OF CALIFORNIA
WELL HALFWAY FEDERAL #1
FIELD HAT MESA
COUNTY LEA STATE NEW MEXICO
1980'FNL & 1980'FEL
Other Services: DLL CYBERLOOK
Sec 9 Twp 21-S Rge 32-E
Permanent Datum G.L. Elev. 3733
Log Measured From K.B. 18.3 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev.: K.B. 3751.3 D.F. G.L. 3733

10223
14000
14100

SIMULTANEOUS
Schlumberger
COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY BASS FRANKS
WELL HAT MESA 1
FIELD HAT MESA (MORROW)
COUNTY LEA STATE NEW MEXICO
660' FNL & 660' FWL
Other Services: DLL BHC
Sec 10 Twp 21-S Rge 32-E
Permanent Datum G.L. Elev. 3746
Log Measured From K.B. 18 Ft. Above Perm. Datum
Drilling Measured From K.B.
Elev.: K.B. 3764 D.F. G.L. 3746

13700
13800
13900
14000
14100

U.S.G.S. RECORDS
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DLL CYBERLOOK

Sec. 9 Twp. 21-S Rge. 32-E

Permanent Datum: G.L. Elev. 3733
Log Measured From: K.B. 19.3 Ft. Above Perm. Datum
Drilling Measured From: K.B. Elev.: K.B. 3751.3 D.F. G.L. 3733

10223

14000

14100

14200

14300

14400

14500

DATUM —10,500

TOP LOWER MORROW

14000

14100

14200

14300

F.R. (GR)

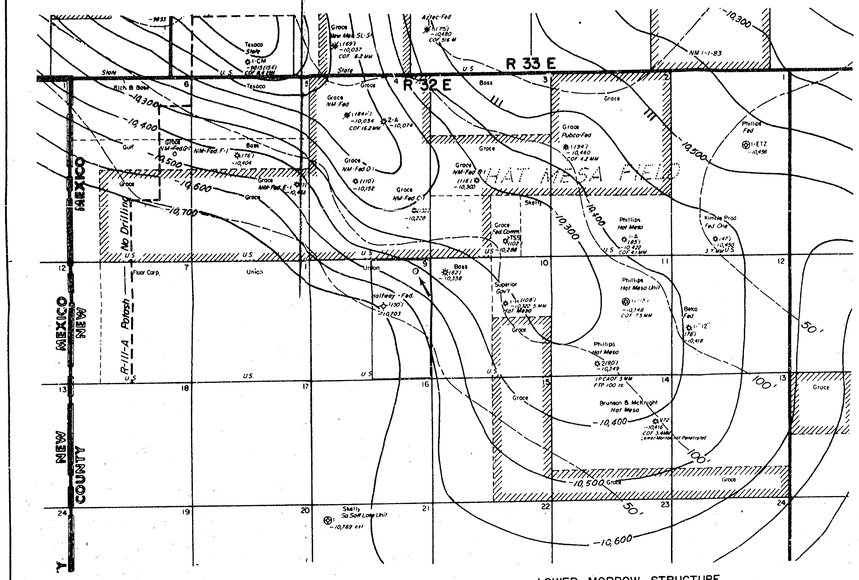
F.R. (CALIPER)

F.R. (CNL)

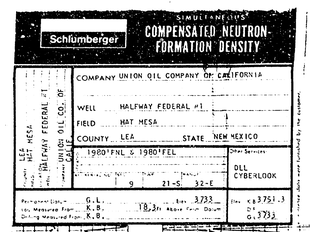
F.R. (FDC)

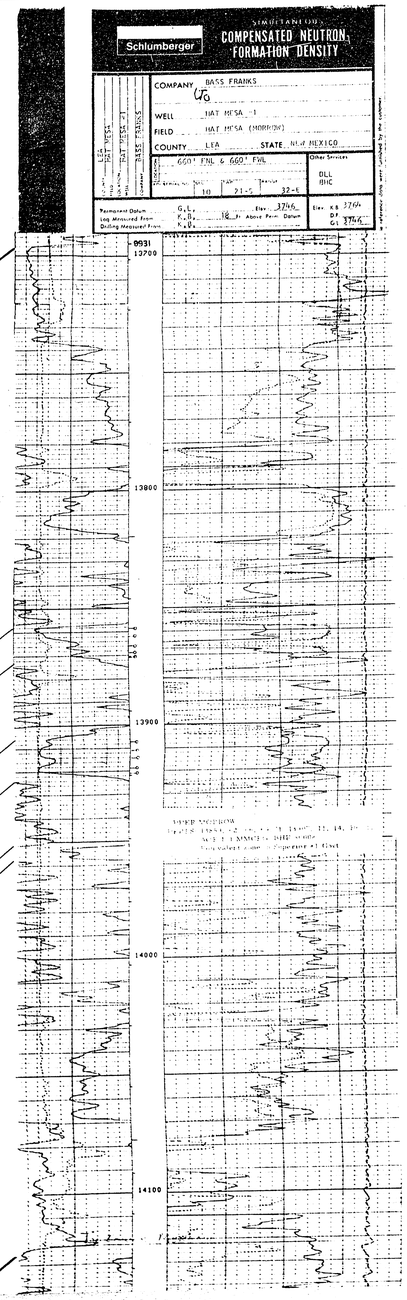
V.A.R.C.T. MICROGRAPHICS

BEST AVAILABLE COPY



LOWER MORROW STRUCTURE
C.I. 100' Scale: 1"=2000'





COMPANY UNION OIL COMPANY OF CALIFORNIA

WELL HALFWAY FEDERAL #1

FIELD HAT MESA

COUNTY LEA STATE NEW MEXICO

1980'FNL & 1980'FEL

Other Services:

OLL
CYBERLOOK

Sec. 9 Twp. 21-S Rge. 32-E

Permanent Datum: G.L. Elev. 3733

Log Measured From: K.B. 18.3 ft Above Perm. Datum

Drilling Measured From: K.B.

Elev.: K.B. 3751.3
D.F.
G.L. 3733

LEA
HAT MESA
HALFWAY FEDERAL #1
UNION OIL CO. OF

DATUM -10,500

TOP LOWER MORROW

UPPER MORROW
Cisco Elastic, 14,2__ to 14,4__ ft.
Acid w/ 1,5 MMSCFG, DHP unsafe
Commingled zone in Superior #1 Gowt.

F.R. (GR)

F.R. (CALIPER)

F.R. (CNL)

F.R. (FDC)

10223

14000

14100

14200

14300

14400

14500

Plugged Back 14,425'
Spot AF150 cal.

FEB 7 1980
Feb 7160 2
Filming Date 15 Aug 80

U.S.G.S. MICROGRAPHICS

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