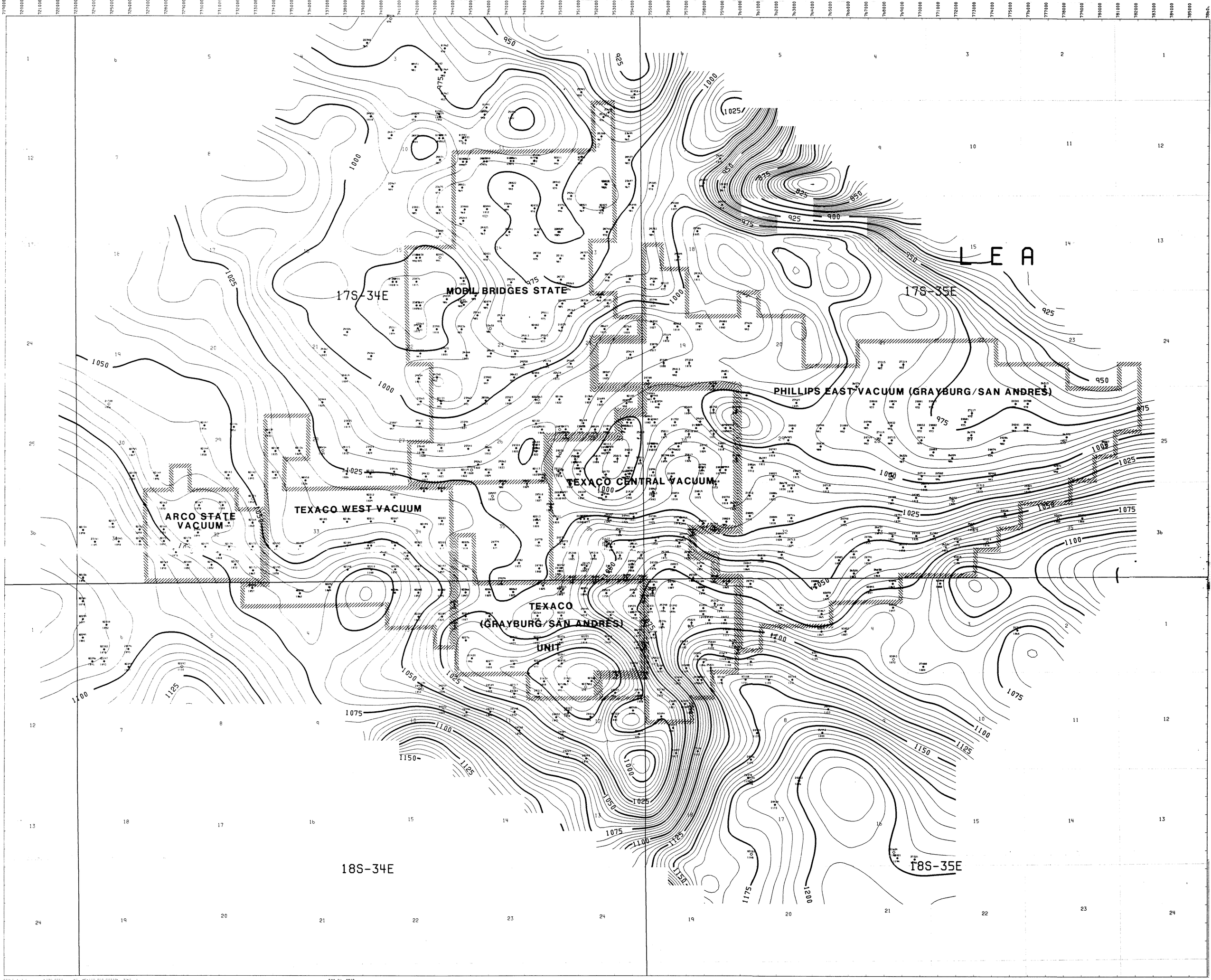
1R - 279

MAPS

GENERAL CORRESPONDENCE

YEAR(S):



Mobil 86/12/04

PRELIMINARY GROSS SALT ISOPACH

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

WELL ISOPACH VALUES POSTED BELOW WELL SYMBOL

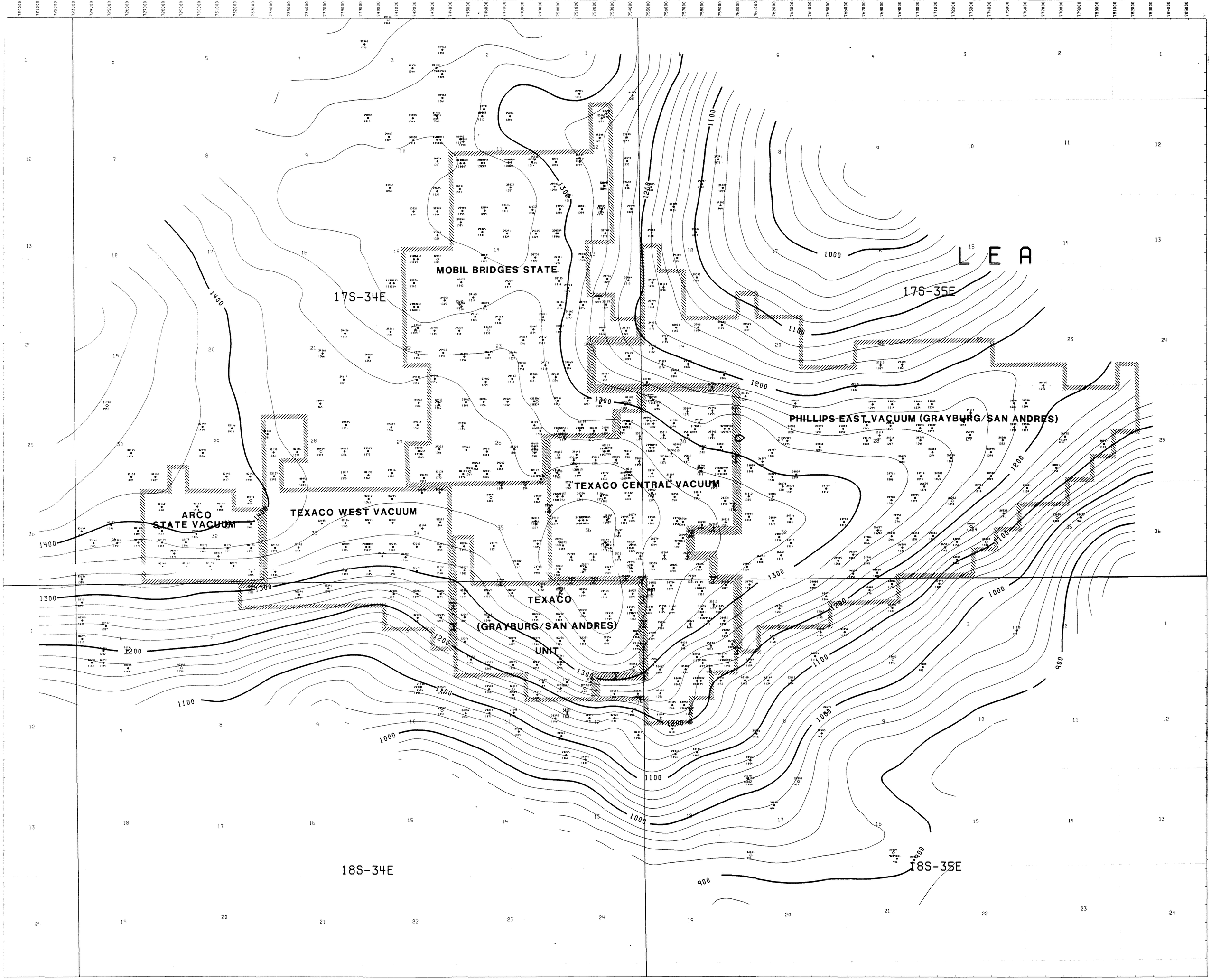
LEGEND

- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW
GEOLOGICAL-GEOPHYSICAL COMMITTEE

VACUUM FIELD AREA
Lea County, New Mexico
PRELIMINARY
GROSS SALT ISOPACH
C.I. : 5'

WEH 12/86



Mobil 86/12/04

0.00 2000.00 FEET

.500 IN. GRID

PRELIMINARY BASE SALT

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

BASE SALT STRUCTURE VALUES POSTED BELOW WELL SYMBOL

LEGEND

- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW

GEOLOGICAL-GEOPHYSICAL COMMITTEE

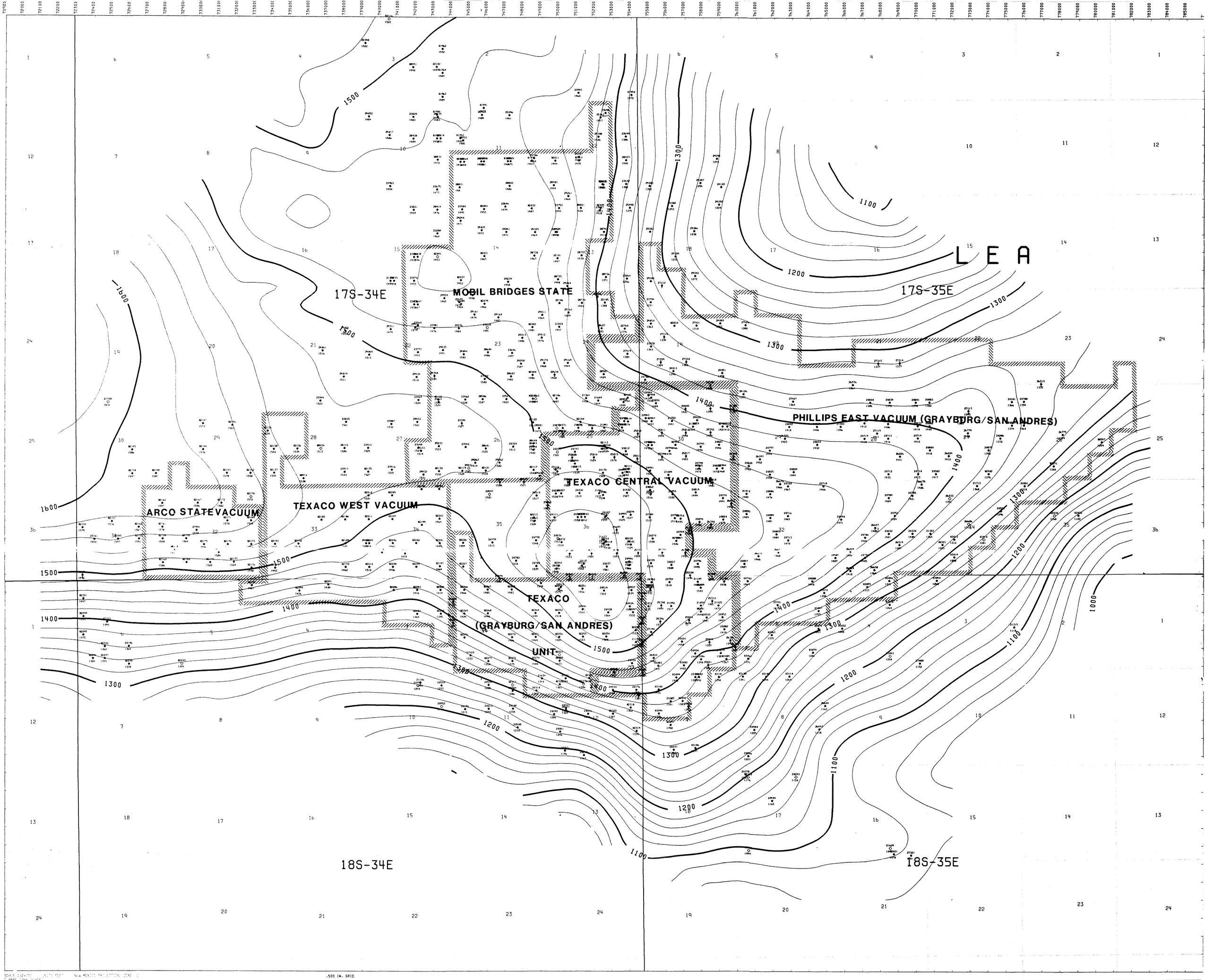
VACUUM FIELD AREA

Lea County, New Mexico

PRELIMINARY BASE SALT

C.I. : 20'

WEH 12/86



Mobil 86/12/04

0.00 2000.00 FEET

PRELIMINARY TOP COWDEN

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

COWDEN STRUCTURE VALUES POSTED BELOW WELL SYMBOL

LEGEND

- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW

GEOLOGICAL-GEOPHYSICAL COMMITTEE

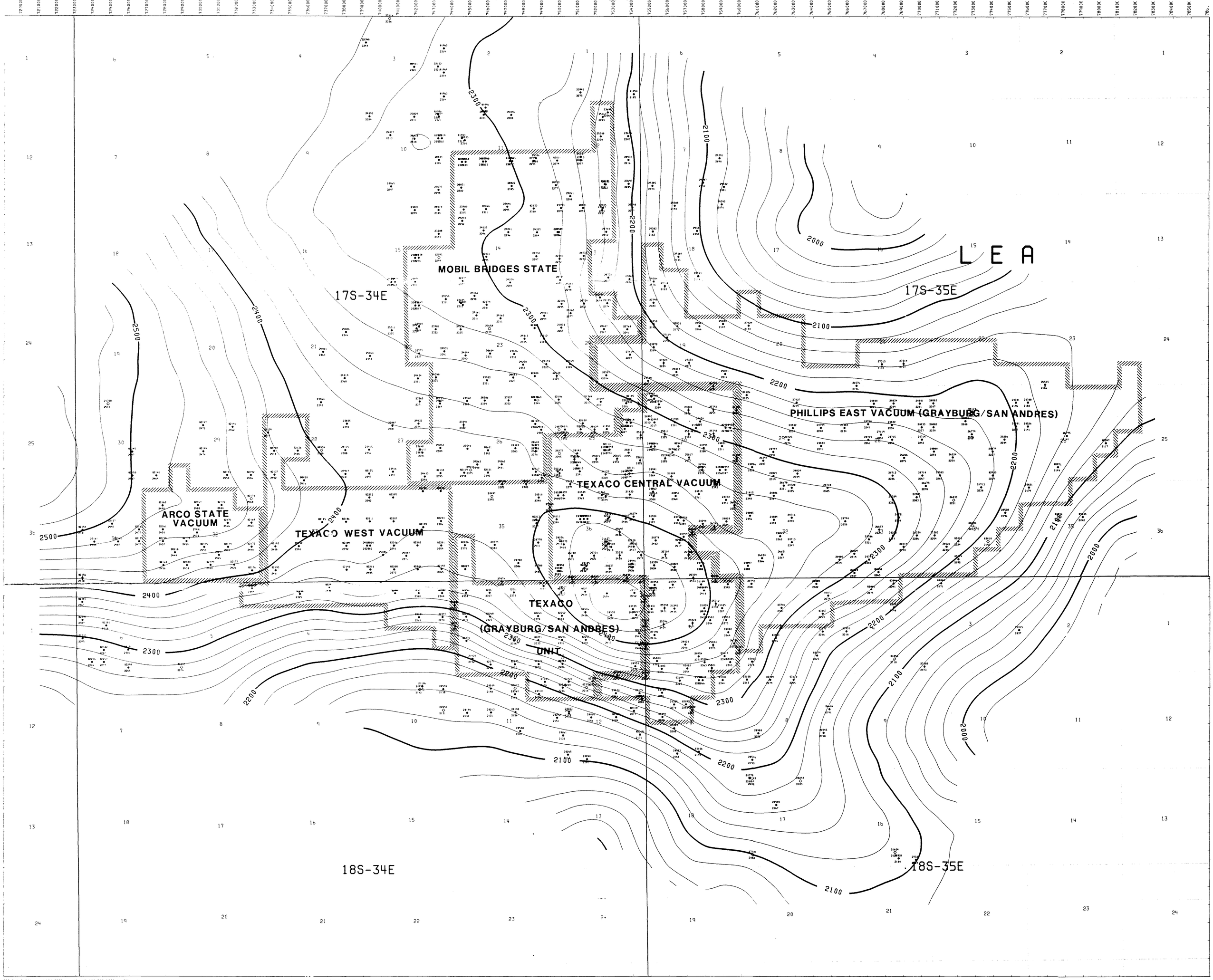
VACUUM FIELD AREA

Lea County, New Mexico

PRELIMINARY TOP COWDEN

C.I. : 20'

WEH 12/86



Mobil 86/12/02

0.00 2000.00 FEET

PRELIMINARY TOP SALT

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

TOP SALT STRUCTURE VALUES POSTED BELOW WELL SYMBOL

LEGEND

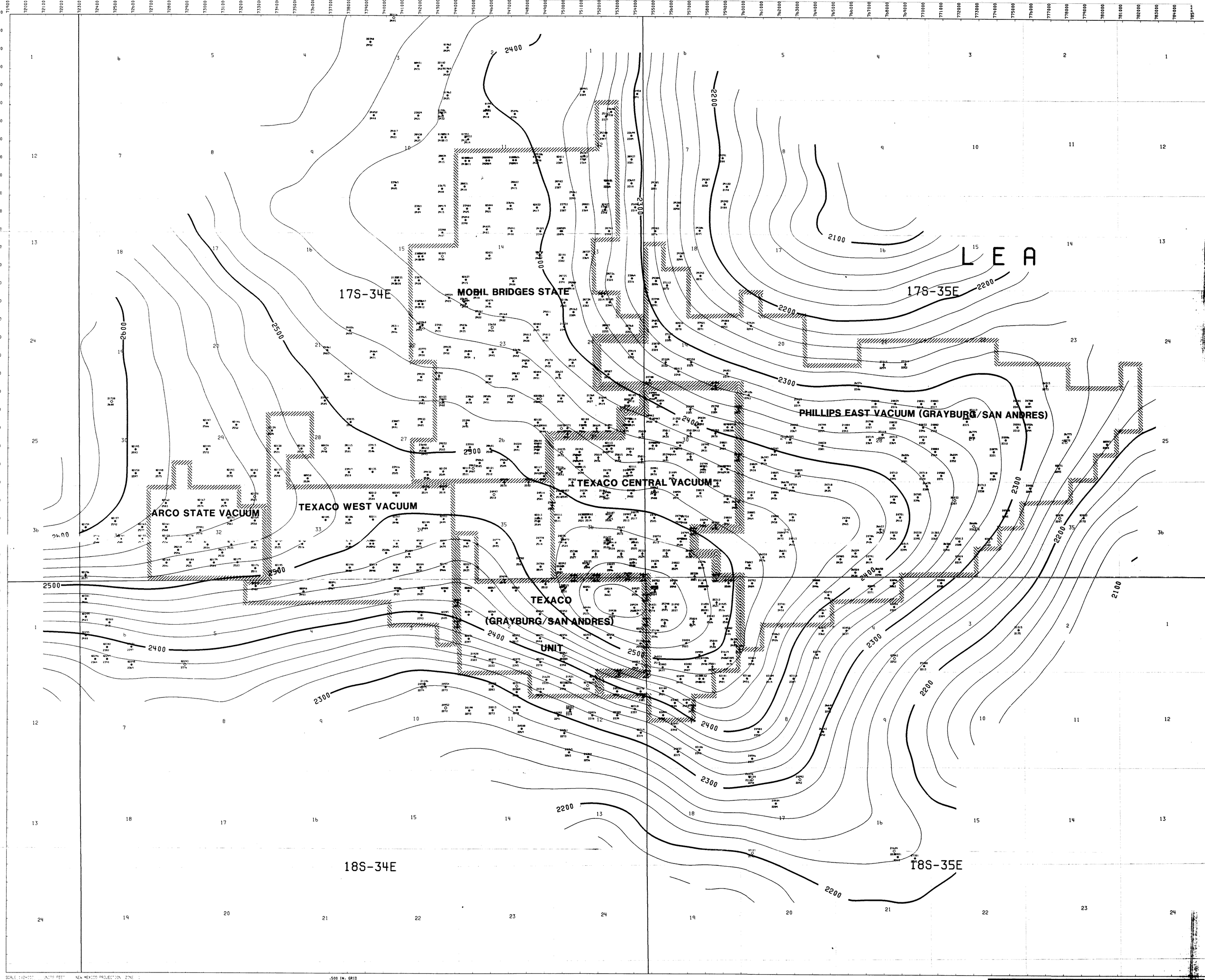
- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW
GEOLOGICAL-GEOPHYSICAL COMMITTEE

VACUUM FIELD AREA
Lea County, New Mexico

PRELIMINARY TOP SALT
C.I. : 20'

WEH 12/86



Mobil 86/12/04

0.00 2000.00 FEET

PRELIMINARY TOP RUSTLER

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

RUSTLER STRUCTURE VALUES POSTED BELOW WELL SYMBOL

LEGEND

- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW

GEOLOGICAL-GEOPHYSICAL COMMITTEE

VACUUM FIELD AREA

Lea County, New Mexico

PRELIMINARY TOP RUSTLER

C.I. : 20'

WEH 12/86

Dresser Atlas

COMPENSATED Z-DENSILOG / COMPENSATED NEUTRON

GAMMA RAY

FILE NO.	
API NO. 30-025-29631	
COMPANY	MOBIL PRODUCING TEXAS & NEW MEXICO INC.
WELL	BRIDGES STATE NO. 507
FIELD	VACUUM - G.S.A.
COUNTY	LEA — STATE NEW MEXICO
LOCATION: 1153' FSL & 1200' FEL	OTHER SERVICES: DLL-MLL-GR-CAL, BHC-AL-G.R-CAL, SPECTRALOG, PROLOG
SEC 26 TWP 17-S RGE 34-E	

PERMANENT DATUM GROUND LEVEL ELEV. 4010'
LOGGING MEASURED FROM K.B. 10.5 FT. ABOVE P.D.
DRILLING MEASURED FROM K.B.

ELEVATIONS: KB 4020.5' DF 4019.5' GL 4010'

DATE	3-19-87	
RUN	1	
SERVICE ORDER	121486	
DEPTH-DRILLER	4920'	
DEPTH-LOGGER	4794'	
BOTTOM LOGGED INTERVAL	4792'	
TOP LOGGED INTERVAL	9.8'	
CASING - DRILLER	8 5/8" @ 1253'	@
CASING - LOGGER	1249'	
BIT SIZE	7 7/8"	
TYPE FLUID IN HOLE	ZEOGEL/IMPERMET	
DENSITY / VISCOSITY	10.1 / 36	
PH / FLUID LOSS	7 / 9	
SOURCE OF SAMPLE	PIT	
RM AT MEAS. TEMP.	.844 @ 72	@
RMF AT MEAS. TEMP.	.844 @ 72	@
RMC AT MEAS. TEMP.	- @ -	@
SOURCE OF RMF / RMC	MEAS. / -	
RM AT BHT	.0288 @ 110	@
TIME SINCE CIRCULATION	11.8 HRS.	
MAX. REC. TEMP. DEG. F	110	
EQUIP. NO. / LOC.	HP-6383 / ODESSA	
RECORDED BY	GREGG DUNE	
WITNESSED BY	W. HERRANCE	

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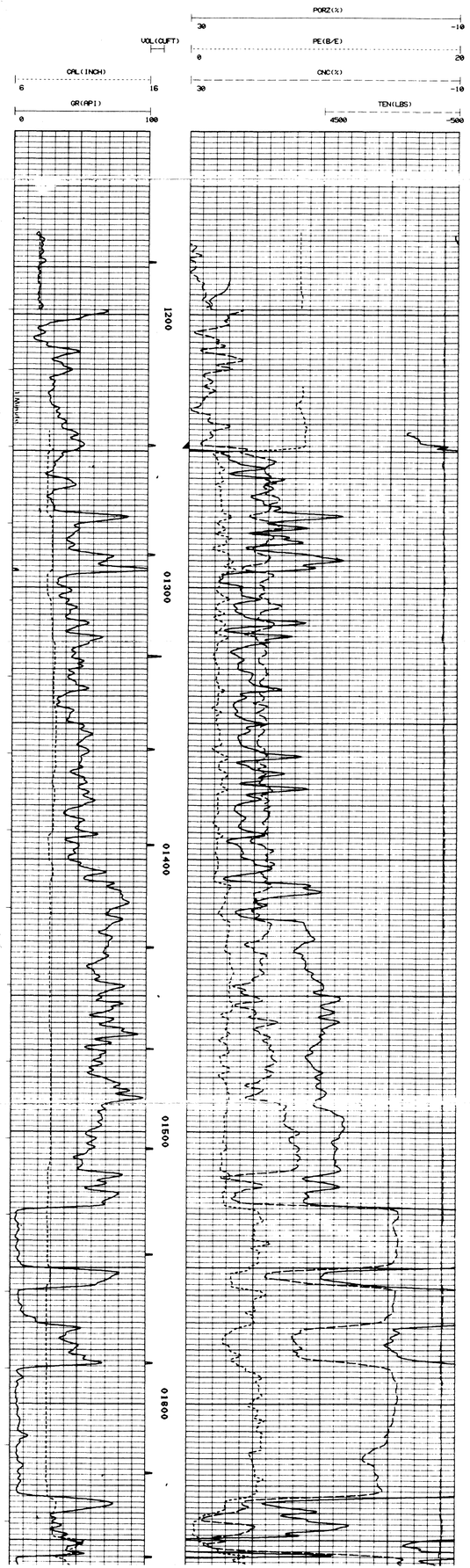

Dresser Atlas

BHC ACOUSTILOG®

GAMMA RAY

FILE NO.	
API NO. 30-025-29631	
COMPANY	MOBIL PRODUCING TEXAS & NEW MEXICO INC.
WELL	BRIDGES STATE NO. 507
FIELD	VACUUM - G.S.A.
COUNTY	LEA — STATE NEW MEXICO
LOCATION: 1158' FSL & 1200' FEL	OTHER SERVICES: ZDL-CN-GR-CAL, SPECTRALOG, DLL-MLL-GR-CAL, PROLOG
SEC 26 TWP 17-S RGE 34-E	

PERMANENT DATUM GROUND LEVEL ELEV. 4010'
LOGGING MEASURED FROM K.B. 10.5 FT. ABOVE P.D.
DRILLING MEASURED FROM K.B.

ELEVATIONS: KB 4020.5' DF 4019.5' GL 4010'

DATE	3-19-87	
RUN	1	
SERVICE ORDER	121486	
DEPTH-DRILLER	4920'	
DEPTH-LOGGER	4794'	
BOTTOM LOGGED INTERVAL	4785'	
TOP LOGGED INTERVAL	1253'	
CASING - DRILLER	8 5/8" @ 1253'	@
CASING - LOGGER	1251'	
BIT SIZE	7 7/8"	
TYPE FLUID IN HOLE	ZEOGEL/IMPERMET	
DENSITY / VISCOSITY	10.1 / 36	
PH / FLUID LOSS	7 / 9	
SOURCE OF SAMPLE	PIT	
RM AT MEAS. TEMP.	.844 @ 72	@
RMF AT MEAS. TEMP.	.844 @ 72	@
RMC AT MEAS. TEMP.	- @ -	@
SOURCE OF RMF / RMC	MEAS. / -	
RM AT BHT	.0288 @ 110	@
TIME SINCE CIRCULATION	20 HRS.	
MAX. REC. TEMP. DEG. F	110	
EQUIP. NO. / LOC.	HP-6383 / ODESSA	
RECORDED BY	GREGG DUNE	
WITNESSED BY	W. HERRANCE	

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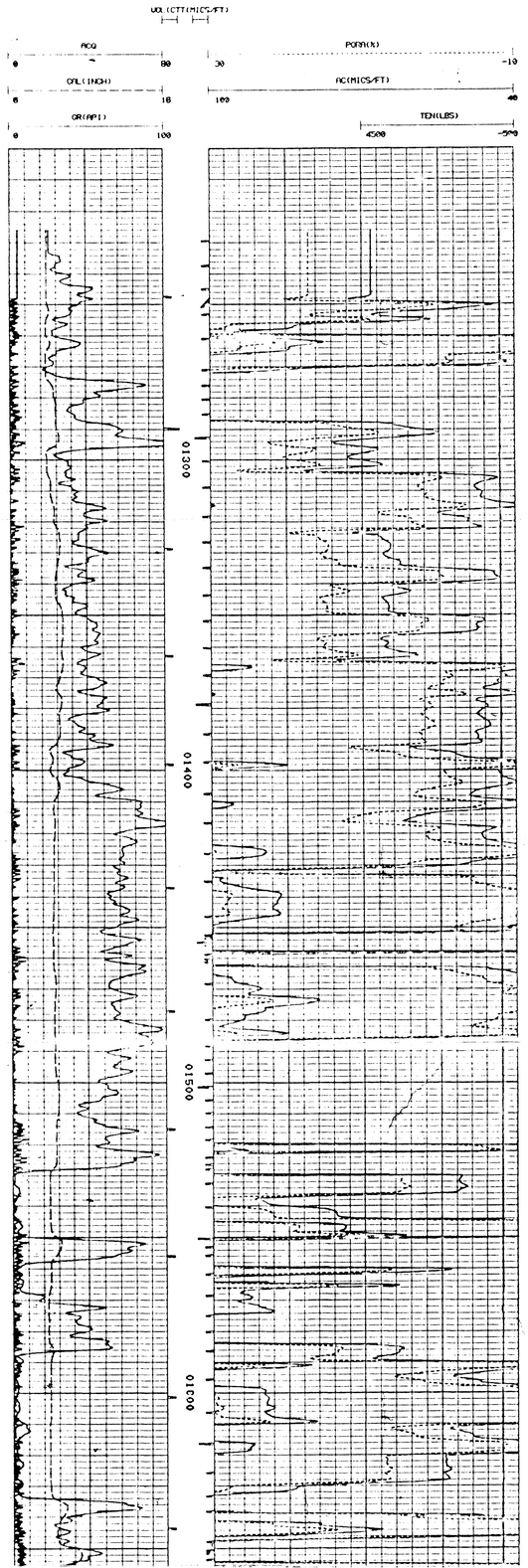

Dresser Atlas

SPECTRALOG™

FILE NO.	
API NO. 30-025-29631	
COMPANY	MOBIL PRODUCING TEXAS & NEW MEXICO INC.
WELL	BRIDGES STATE NO. 507
FIELD	VACUUM - G.S.A.
COUNTY	LEA — STATE NEW MEXICO
LOCATION: 1158' FSL & 1200' FEL	OTHER SERVICES: ZDL-CN-GR-CAL, DLL-MLL-GR-CAL, BHC-AL-GR-CAL, PROLOG
SEC 26 TWP 17-S RGE 34-E	

PERMANENT DATUM GROUND LEVEL ELEV. 4010'
LOGGING MEASURED FROM K.B. 10.5' FT. ABOVE P.D.
DRILLING MEASURED FROM K.B.

ELEVATIONS: KB 4020.5' DF 4019.5' GL 4010'

DATE	3-19-87	
RUN	1	
SERVICE ORDER	121486	
DEPTH-DRILLER	4920'	
DEPTH-LOGGER	3818'	
BOTTOM LOGGED INTERVAL	3809'	
TOP LOGGED INTERVAL	1249'	
CASING - DRILLER	8 5/8" @ 1253'	@
CASING - LOGGER	1249'	
BIT SIZE	7 7/8"	
TYPE FLUID IN HOLE	ZEOGEL/IMPERMET	
DENSITY / VISCOSITY	10.1 / 36	
PH / FLUID LOSS	7 / 9	
SOURCE OF SAMPLE	PIT	
RM AT MEAS. TEMP.	.844 @ 72	@
RMF AT MEAS. TEMP.	.844 @ 72	@
RMC AT MEAS. TEMP.	- @ -	@
SOURCE OF RMF / RMC	MEAS. / -	
RM AT BHT	.0288 @ 110	@
TIME SINCE CIRCULATION	15 HRS.	
MAX. REC. TEMP. DEG. F	110	
EQUIP. NO. / LOC.	HP-6383 / ODESSA	
RECORDED BY	GREGG DUNE	
WITNESSED BY	W. HERRANCE	

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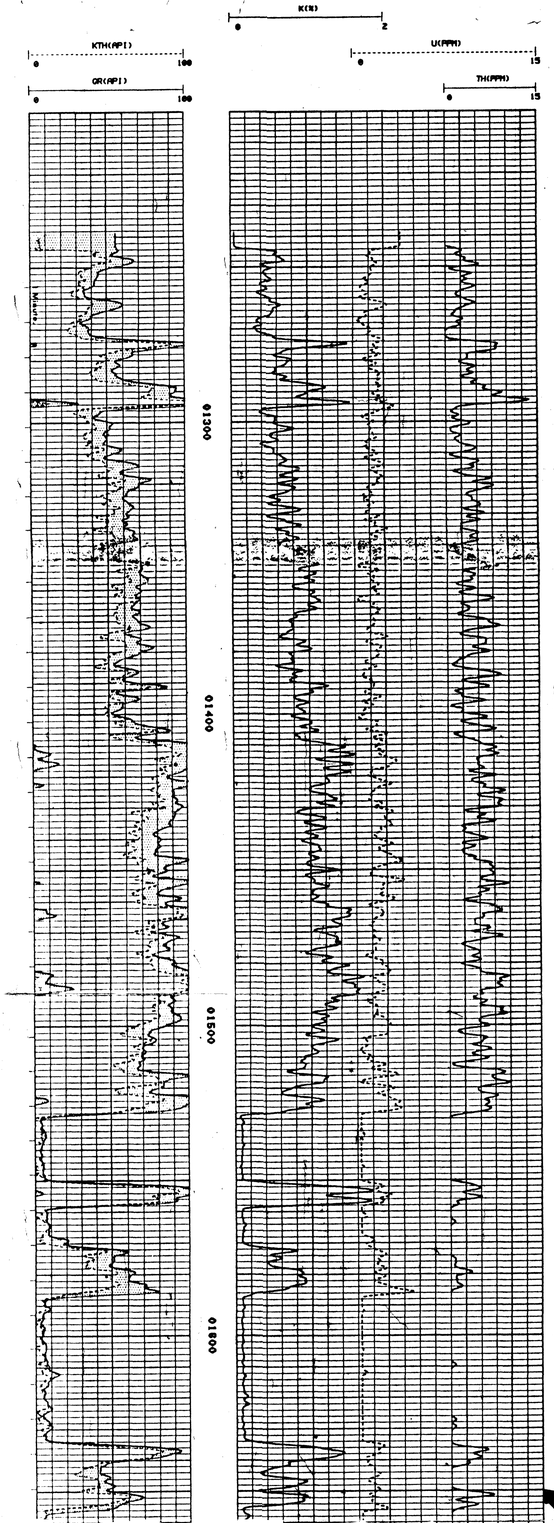
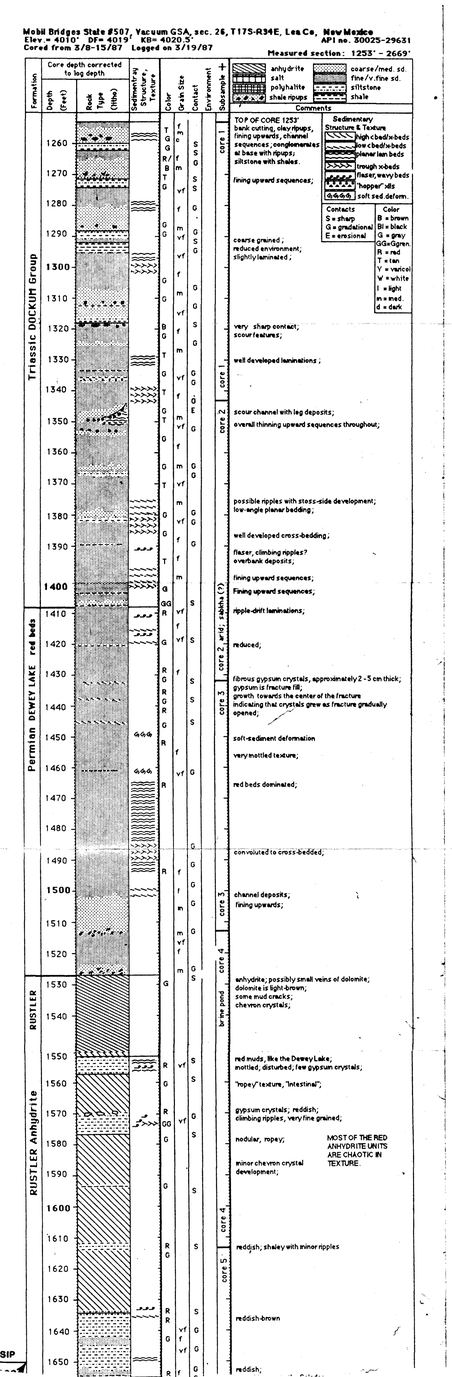
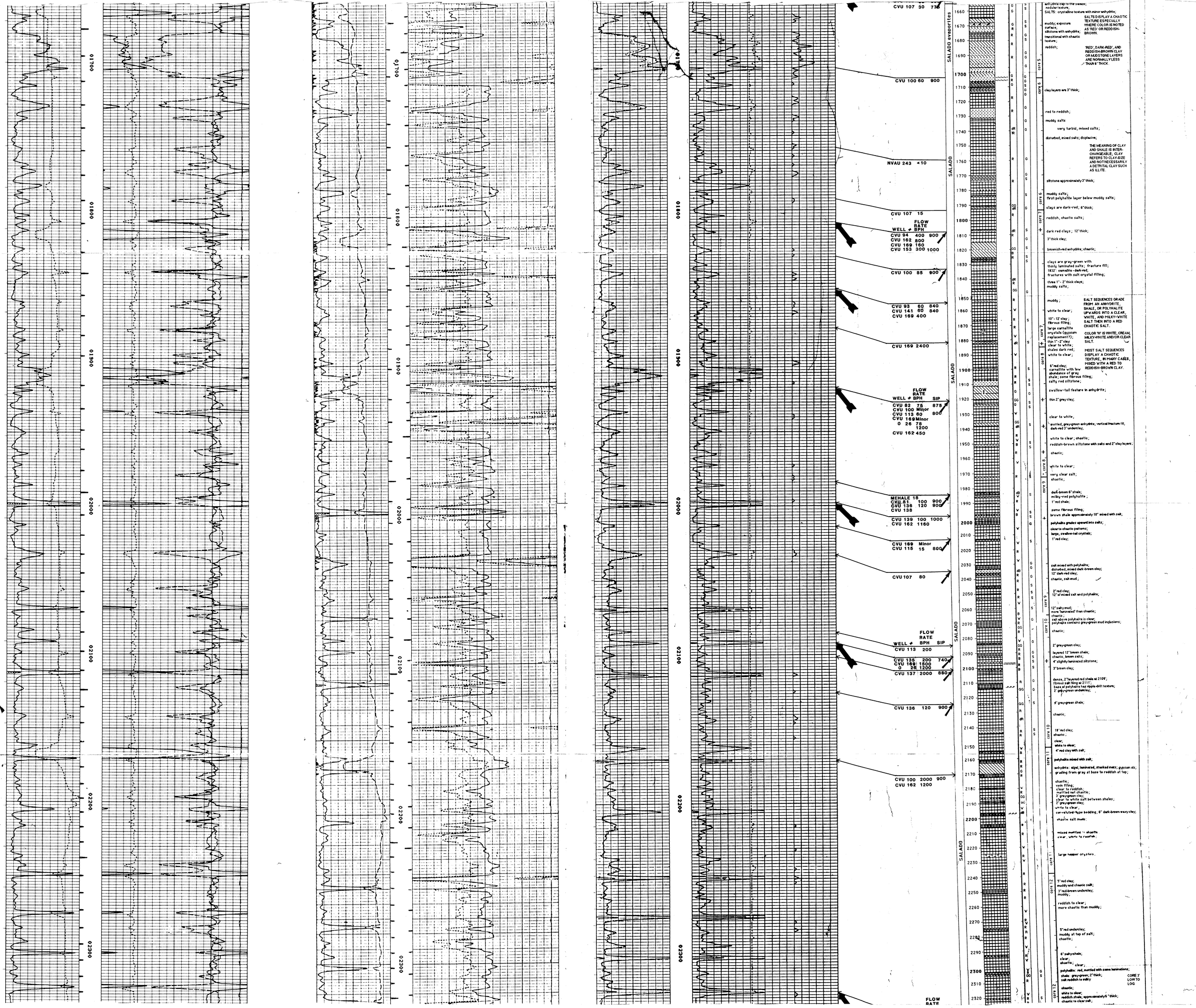


Mobil Bridges State #507, Vacuum GSA, sec. 26, T17S-R34E, Lea Co, New Mexico
Elev.= 4010' DF= 4019' KB= 4020.5' API no. 30025-29631
Cored from 3/8-13/87 Logged on 3/19/87 Measured section: 1253' - 2669'



WELL # FLOW RATE BPH SIP


01700
01800
01900
02000
02100
02200
02300
CVU 107 30 770
CVU 100 60 900
NVAU 243 <10
CVU 107 15
FLOW RATE
WELL # BPH
CVU 94 400 900
CVU 162 800
CVU 169 160
CVU 153 300 1000
CVU 100 85 900
CVU 93 60 840
CVU 141 60 840
CVU 169 400
CVU 169 2400
FLOW RATE
WELL # BPH SIP
CVU 82 78 875
CVU 100 Minor
CVU 113 60 800
CVU 169 Minor
0 26 78
1200
CVU 162 450
MEHALE 18
CVU 81 100 900
CVU 136 120 900
CVU 138
CVU 139 100 1000
CVU 162 1160
CVU 169 Minor
CVU 115 15 800
CVU 107 80
FLOW RATE
WELL # BPH SIP
CVU 113 200
CVU 135 200 740
CVU 169 1500
0 26 1200
CVU 137 2000 880
CVU 136 120 900
CVU 100 2000 900
CVU 162 1200
FLOW
SALADO evaporites
SALADO
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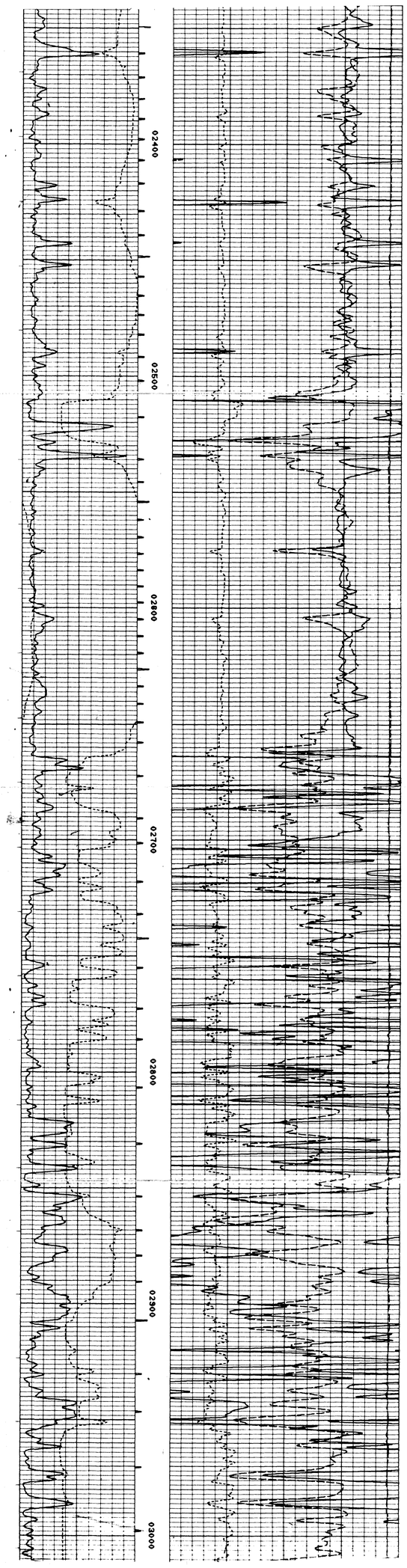
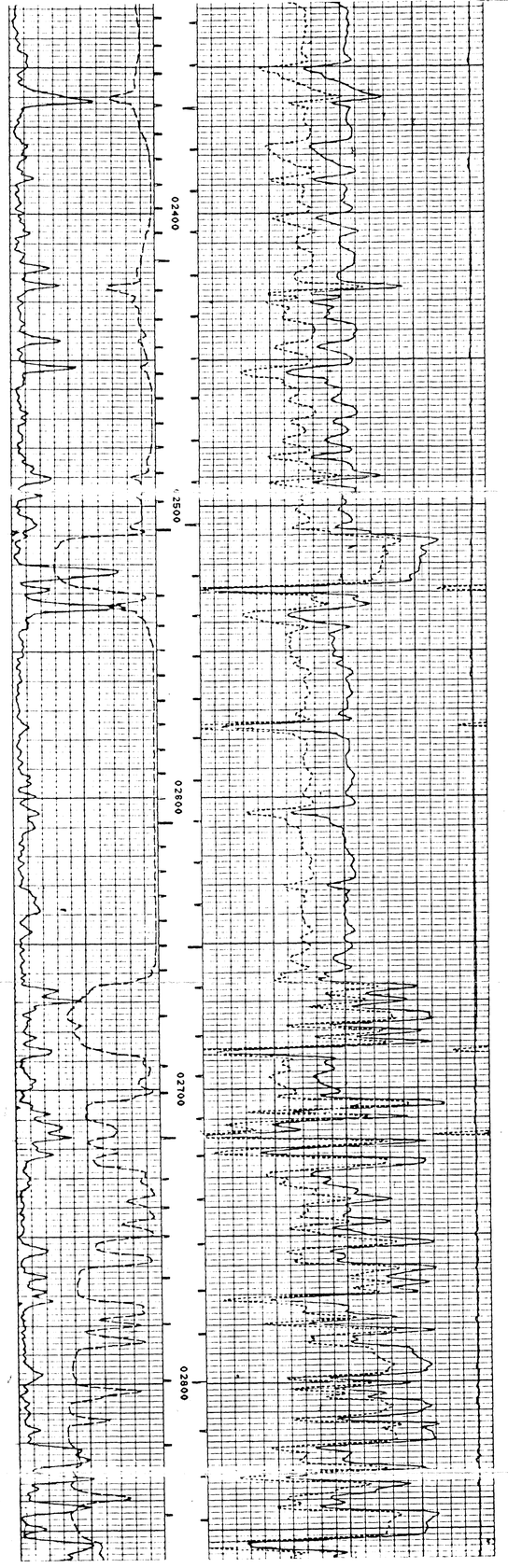
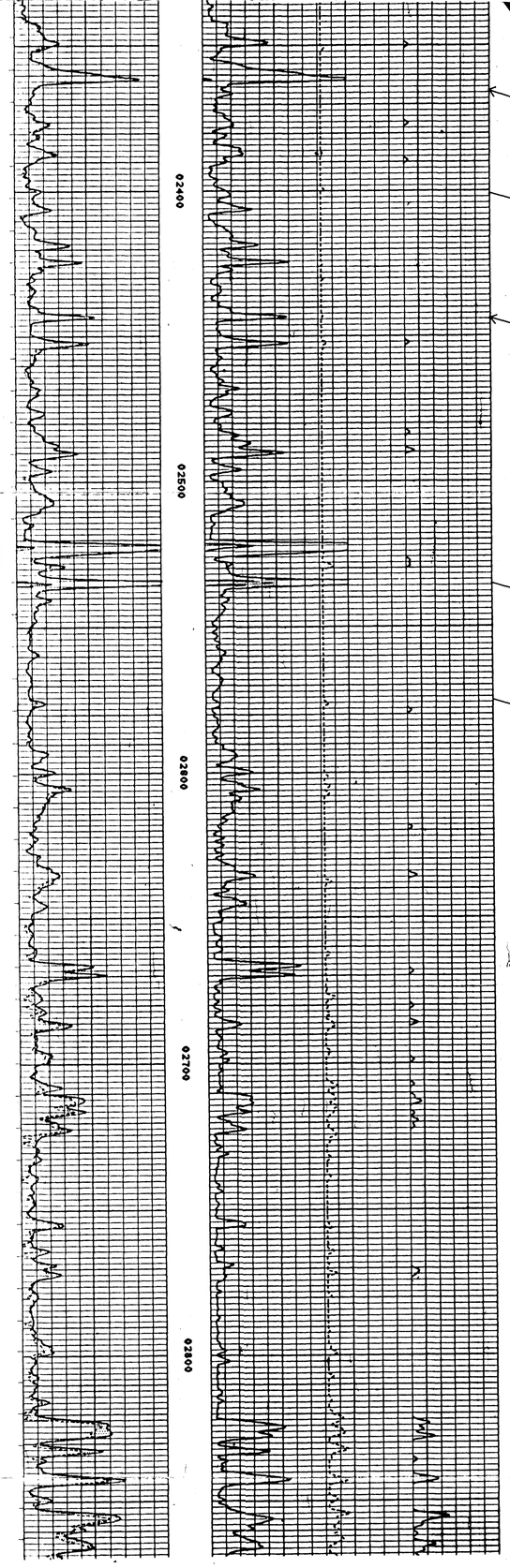
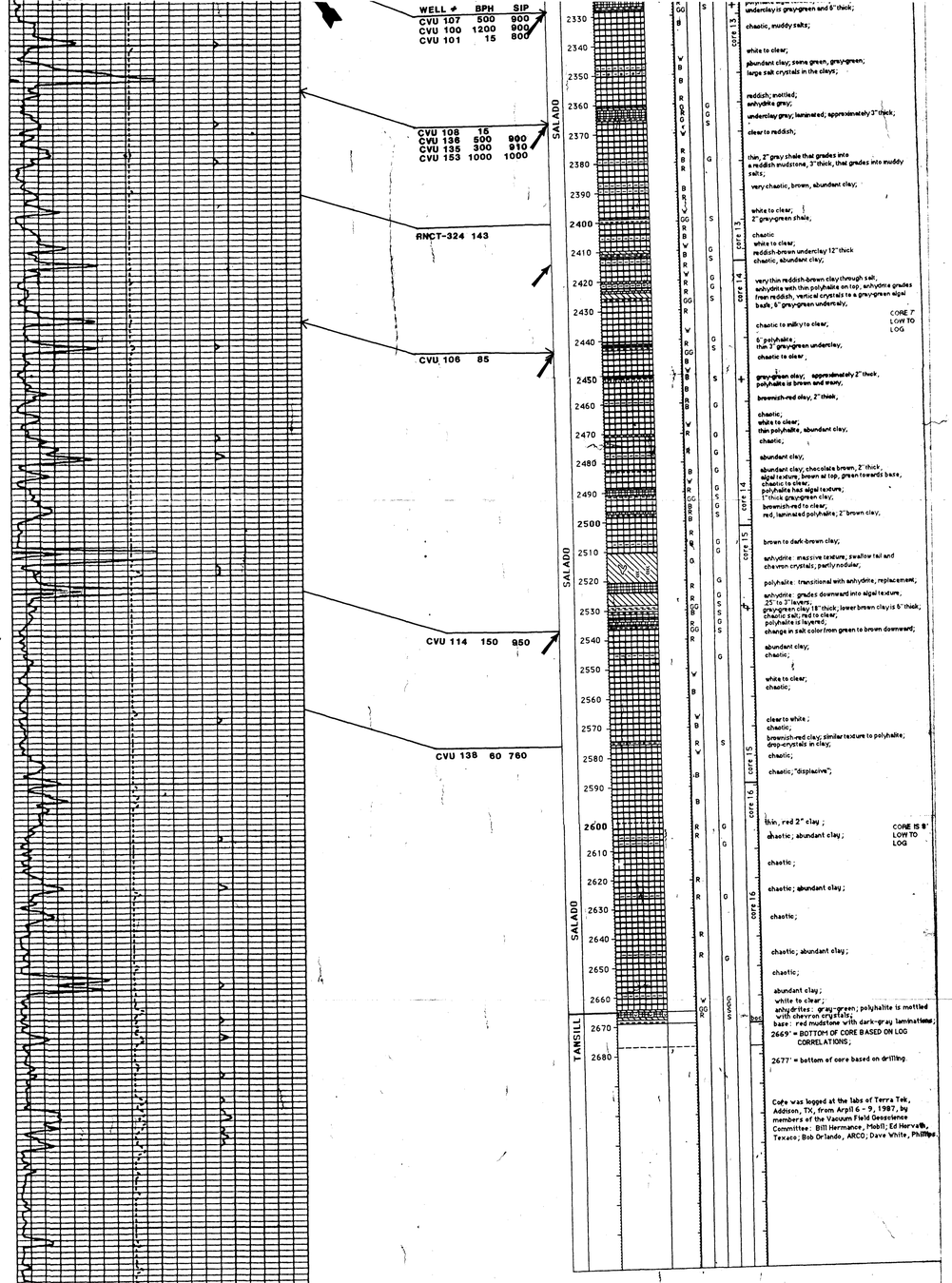
core 5
core 6
core 7
core 8
core 9
core 10
core 11
core 12
anhydrite cap to the dome; nodular texture;
SALTS: crystalline texture with minor anhydrite;
SALTS DISPLAY A CHAOTIC TEXTURE ESPECIALLY WHERE COLOR IS NOTED AS 'RED' OR REDDISH-BROWN.
muddy; exposure surface;
siltstone with anhydrite;
transitional with chaotic texture;
reddish;
'RED', DARK-RED', AND REDDISH-BROWN CLAY OR MUDSTONE LAYERS ARE NORMALLY LESS THAN 6" THICK.
clay layers are 3" thick;
red to reddish;
muddy salts
very turbid, mixed salts;
disturbed, mixed salts; displacive;
THE MEANING OF CLAY AND SHALE IS INTERCHANGEABLE, CLAY REFERS TO CLAY-SIZE AND NOT NECESSARILY A DETRITAL CLAY SUCH AS ILLITE.
siltstone approximately 3" thick;
muddy salts;
first polyhalite layer below muddy salts;
clays are dark-red; 6" thick;
reddish, chaotic salts;
dark red clays; 12" thick;
3" thick clay;
brownish-red anhydrite; chaotic;
clays are gray-green with
thinly laminated salts; fracture fill;
1832': carnallite - dark-red;
fractures with salt crystal filling;
three 1"- 2" thick clays;
muddy salts;
muddy;
white to clear;
10"- 12' clay;
fibrous filing;
large carnallite crystals (gypsum replacement?);
thin 1"- 2" clay
clear to white;
shales dark red;
white to clear;
SALT SEQUENCES GRADE FROM AN ANHYDRITE, SHALE, OR POLYHALITE UPWARDS INTO A CLEAR, WHITE, AND MILKY-WHITE SALT THEN INTO A RED CHAOTIC SALT.
COLOR 'W' IS WHITE, CREAM, MILKY-WHITE AND/OR CLEAR SALT.
MOST SALT SEQUENCES DISPLAY A CHAOTIC TEXTURE, IN MANY CASES, MIXED WITH A RED TO REDDISH-BROWN CLAY.
6" red clay;
carnallite with low abundance of gray shale; some fibrous filing;
salty red siltstone;
swallow-tail feature in anhydrite;
thin 2" gray clay;
clear to white,
mottled, gray-green anhydrite; vertical fracture fill,
dark-red 3" underclay,
white to clear; chaotic;
reddish-brown siltstone with salts and 2" clay layers;
chaotic;
white to clear;
very clear salt;
chaotic;
dark-brown 6" shale;
milky-red polyhalite;
1" red shale;
some fibrous filing;
brown shale approximately 10" mixed with salt;
polyhalite grades upward into salts;
clear to chaotic patterns;
large, swallow-tail crystals;
1" red clay;
salt mixed with polyhalite;
disturbed, mixed dark-brown clay;
12" dark-red clay;
chaotic, salt-mud;
2" red clay;
12" of mixed salt and polyhalite;
12" salty mud;
more laminated than chaotic;
chaotic;
salt above polyhalite is clear;
polyhalite contains gray-green mud inclusions;
chaotic;
2" gray-green clay;
layered 12" brown shale;
chaotic, brown salts;
4" slightly laminated siltstone;
3" brown clay;
dense, 2" layered red shale at 2109';
fibrous salt filing at 2111';
base of polyhalite has ripple-drift texture;
2" gray-green underclay;
6" gray-green shale;
chaotic;
18" red clay;
chaotic;
clear;
white to clear;
4" red clay with salt;
polyhalite mixed with salt;
anhydrite: algal, laminated, stacked mats; gypsum xls;
grading from gray at base to reddish at top;
chaotic;
vein filling;
clear to reddish;
mottled not chaotic;
2" gray-green clay;
clear to white salt between shales;
2" gray-green clay;
white to clear;
convoluted-type bedding; 6" dark-brown waxy clay;
chaotic salt muds;
mixed mottled to chaotic
clear, white to reddish;
large hopper crystals.
5" red clay;
muddy and chaotic salt;
3" red-brown underclay;
muddy;
reddish to clear;
more chaotic than muddy;
5" red underclay;
muddy at top of salt;
chaotic;
6" salty-shale;
clear;
chaotic; clear;
polyhalite: red, mottled with some laminations;
shale: gray-green; 2" thick;
salt reddish to milky
CORE 3' LOW TO LOG
chaotic;
white to clear;
reddish shale, approximately 6" thick;
chaotic to clear salt;









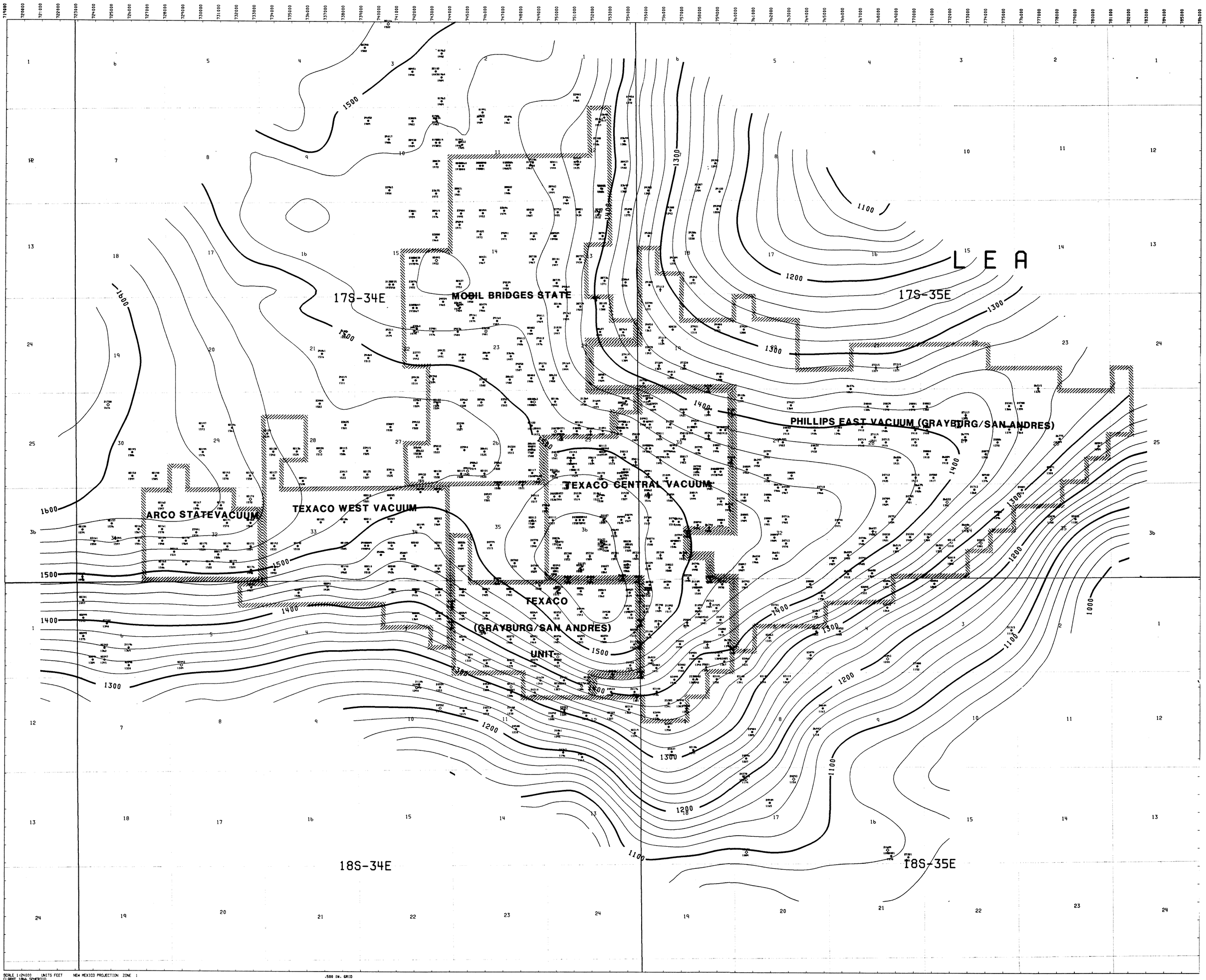
VACUUM FIELD (WATER FLOW)
GEOLOGICAL/GEOPHYSICAL COMMITTEE

BRIDGES STATE 507
COMPOSITE LOG

LEA COUNTY, NEW MEXICO

W.E.H. 12/87

PRESENTATION COPY



SCALE 1:24000 UNITS FEET NEW MEXICO PROJECTION ZONE 1
CLARKE 1866 SPHEROID .500 IN. GRID

Mobil 86/12/04

0.00 2000.00 FEET

PRELIMINARY TOP COWDEN

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

COWDEN STRUCTURE VALUES POSTED BELOW WELL SYMBOL

LEGEND

- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW

GEOLOGICAL-GEOPHYSICAL COMMITTEE

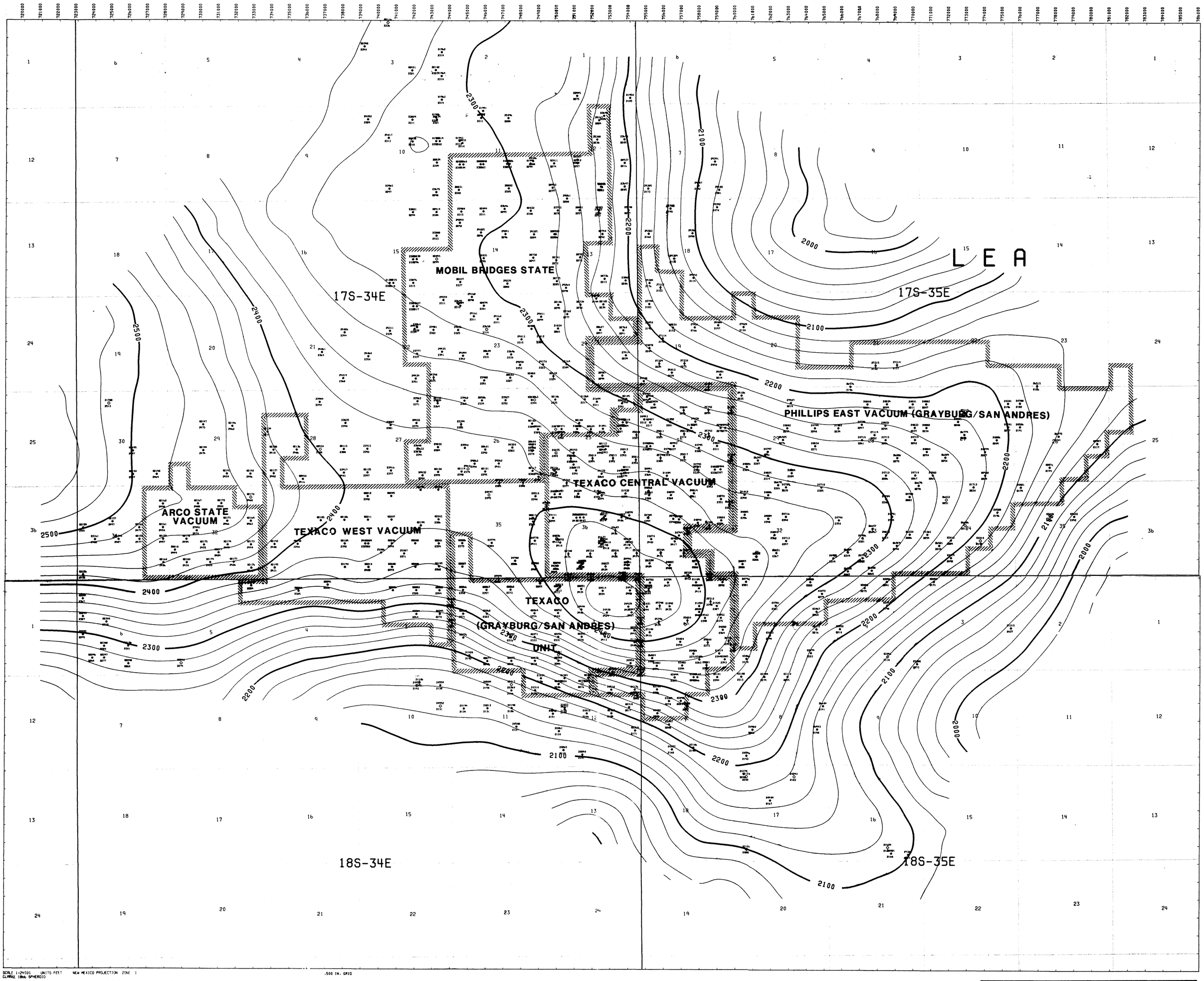
VACUUM FIELD AREA

Lea County, New Mexico

PRELIMINARY TOP COWDEN

C.I. : 20'

WEM 12/86



SCALE 1:24000 UNITS FEET NEW MEXICO PROJECTION ZONE 1
CLARKE 1866 SPHEROID .500 IN. GRID

Mobil 8b/12/02

0.00 2000.00 FEET

PRELIMINARY TOP SALT

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

TOP SALT STRUCTURE VALUES POSTED BELOW WELL SYMBOL

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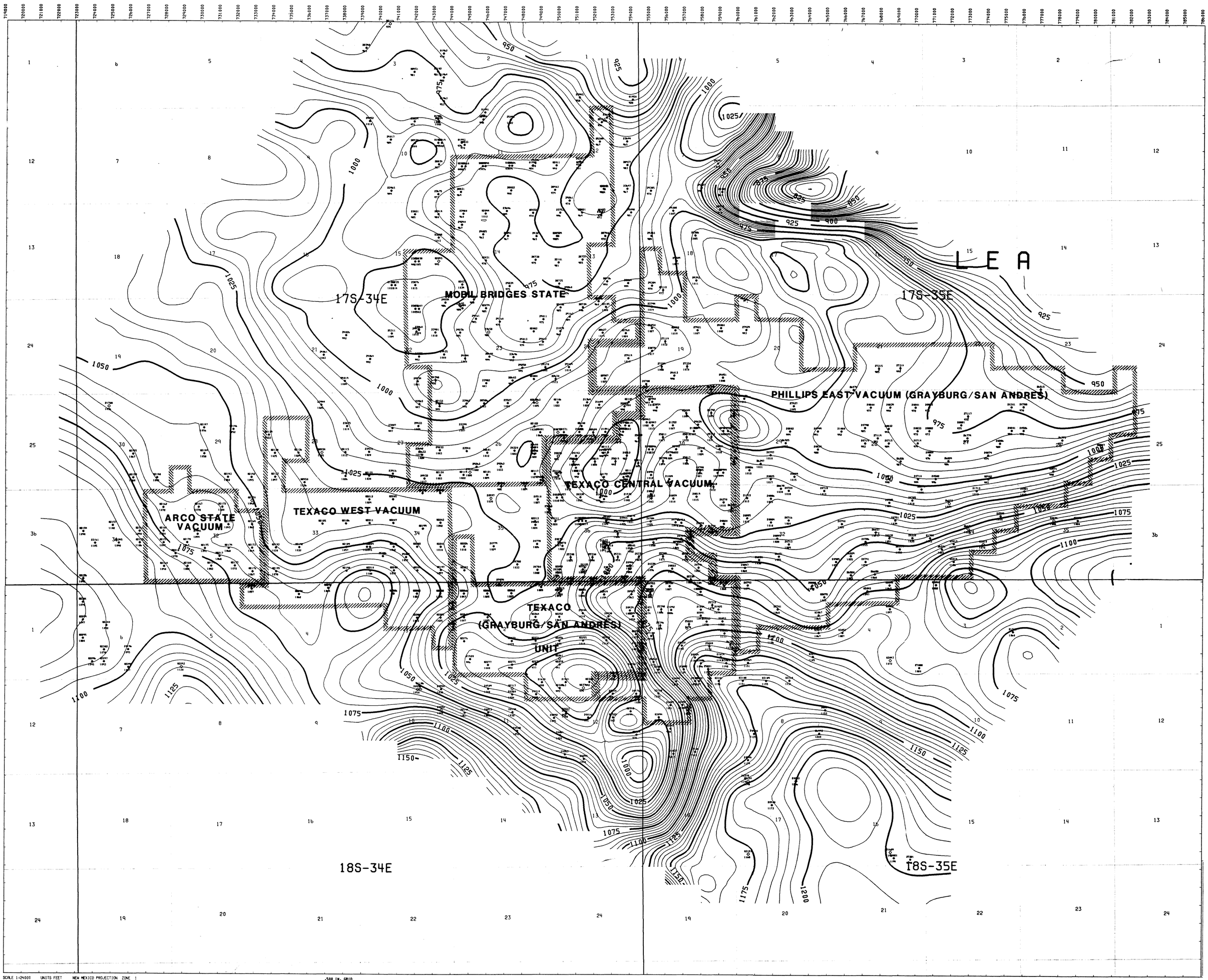
- UNKNOWN

VACUUM FIELD WATERFLOW
GEOLOGICAL-GEOPHYSICAL COMMITTEE

VACUUM FIELD AREA
Lea County, New Mexico

PRELIMINARY TOP SALT
C.I. : 20'

WEH 12/86



SCALE 1:24000 UNITS FEET NEW MEXICO PROJECTION ZONE 1
CLARKE 1866 SPHEROID .500 IN. GRID

Mobil 86/12/04

0.00 2000.00 FEET

PRELIMINARY GROSS SALT ISOPACH

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

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LEGEND

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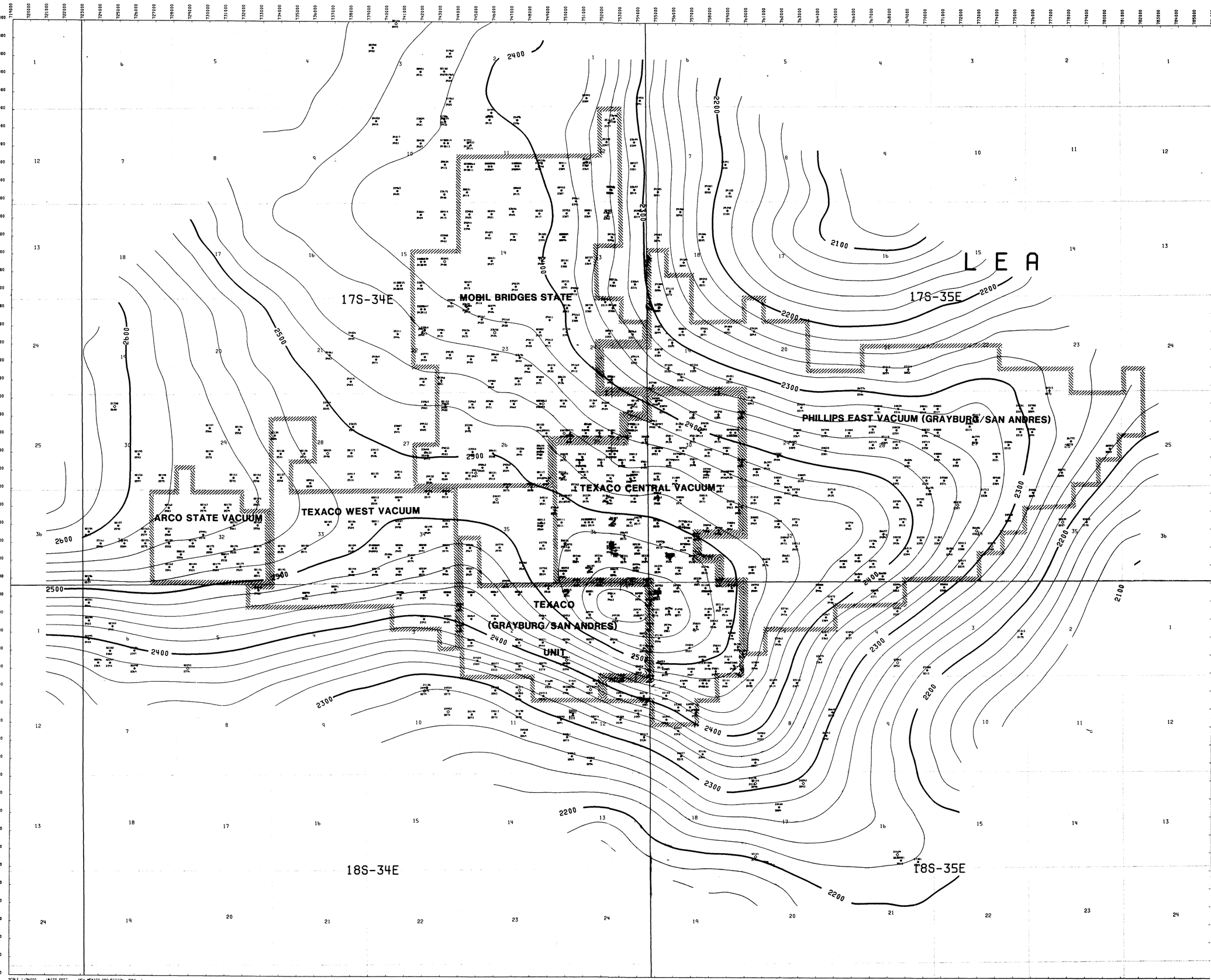
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW
GEOLOGICAL-GEOPHYSICAL COMMITTEE

VACUUM FIELD AREA
Lea County, New Mexico
PRELIMINARY
GROSS SALT ISOPACH
C.I. : 5'

WEH 12/86



SCALE 1:24000 UNITS FEET NEW MEXICO PROJECTION ZONE 1
CLARKE 1866 SPHEROID .500 IN. GRID

Mobil 86/12/04

0.00 2000.00 FEET

PRELIMINARY TOP RUSTLER

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

RUSTLER STRUCTURE VALUES POSTED BELOW WELL SYMBOL

LEGEND

- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

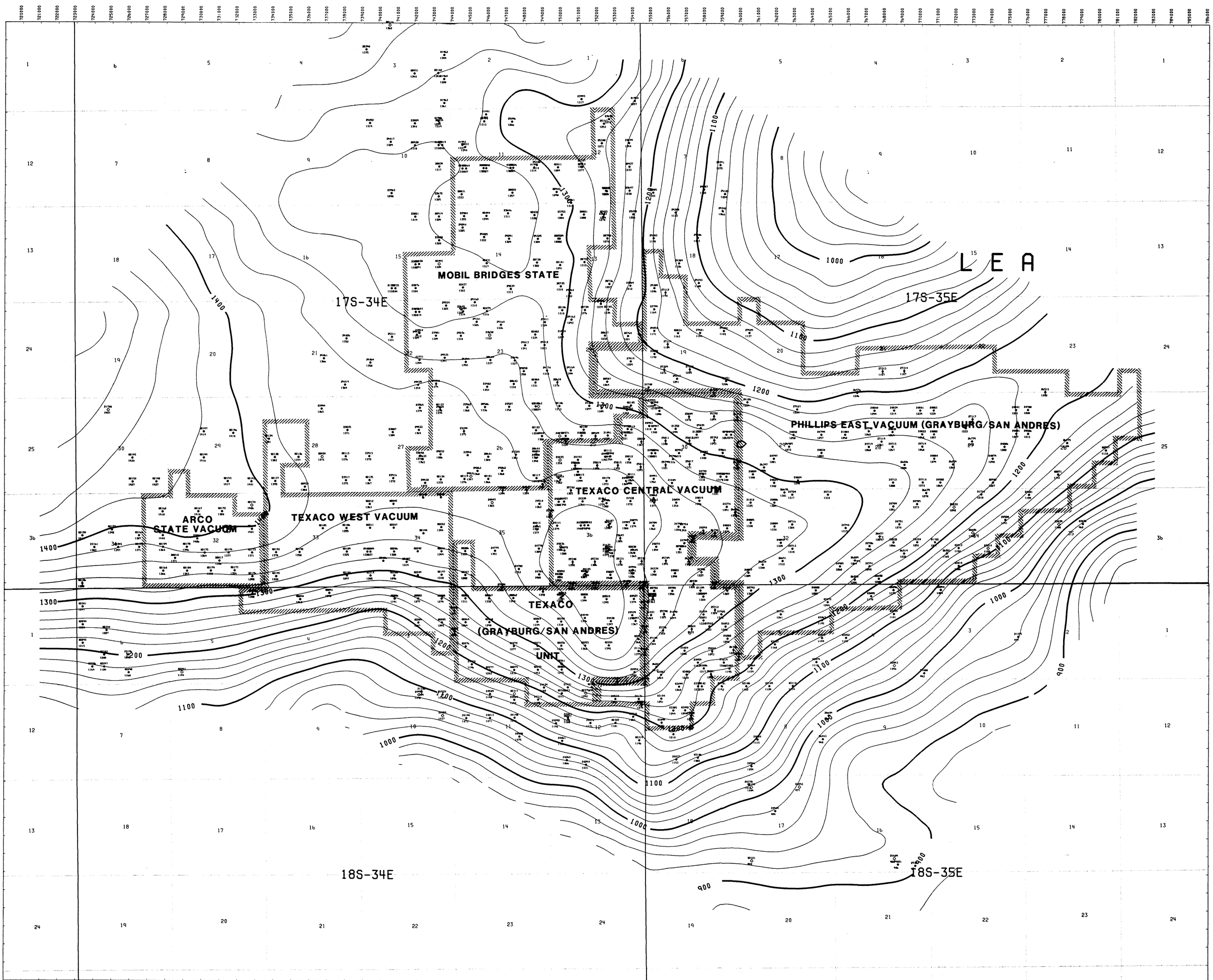
VACUUM FIELD WATERFLOW

GEOLOGICAL-GEOPHYSICAL COMMITTEE

VACUUM FIELD AREA
Lea County, New Mexico

PRELIMINARY TOP RUSTLER
C.I. : 20'

WEH 12/86



SCALE 1:24000 UNITS FEET NEW MEXICO PROJECTION ZONE 1
CLARKE 1866 SPHEROID

.500 IN. GRID

Mobil 86/12/04

0.00 2000.00 FEET

PRELIMINARY BASE SALT

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

BASE SALT STRUCTURE VALUES POSTED BELOW WELL SYMBOL

LEGEND

- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW

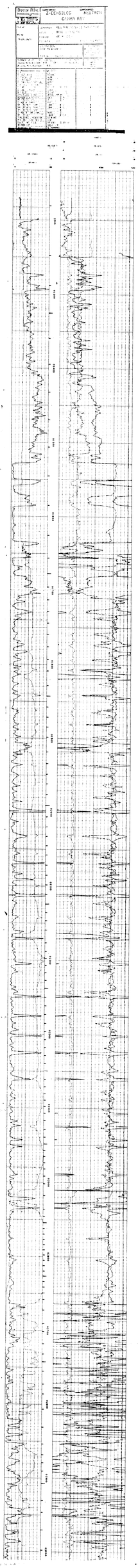
GEOLOGICAL-GEOPHYSICAL COMMITTEE

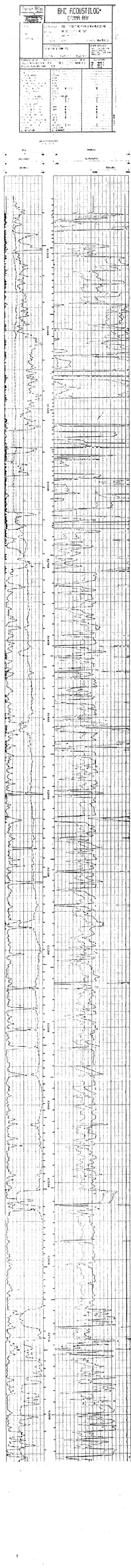
VACUUM FIELD AREA
Lea County, New Mexico

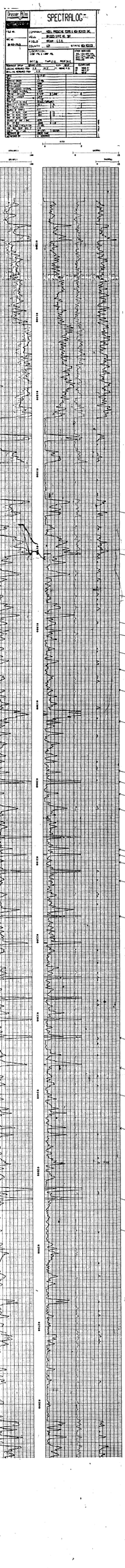
PRELIMINARY BASE SALT

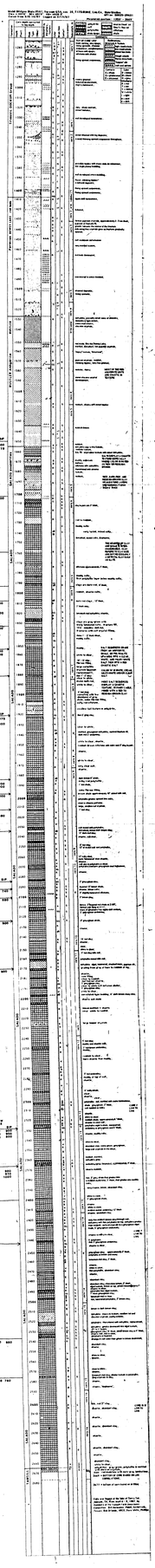
C.I. : 20'

WEH **12/86**







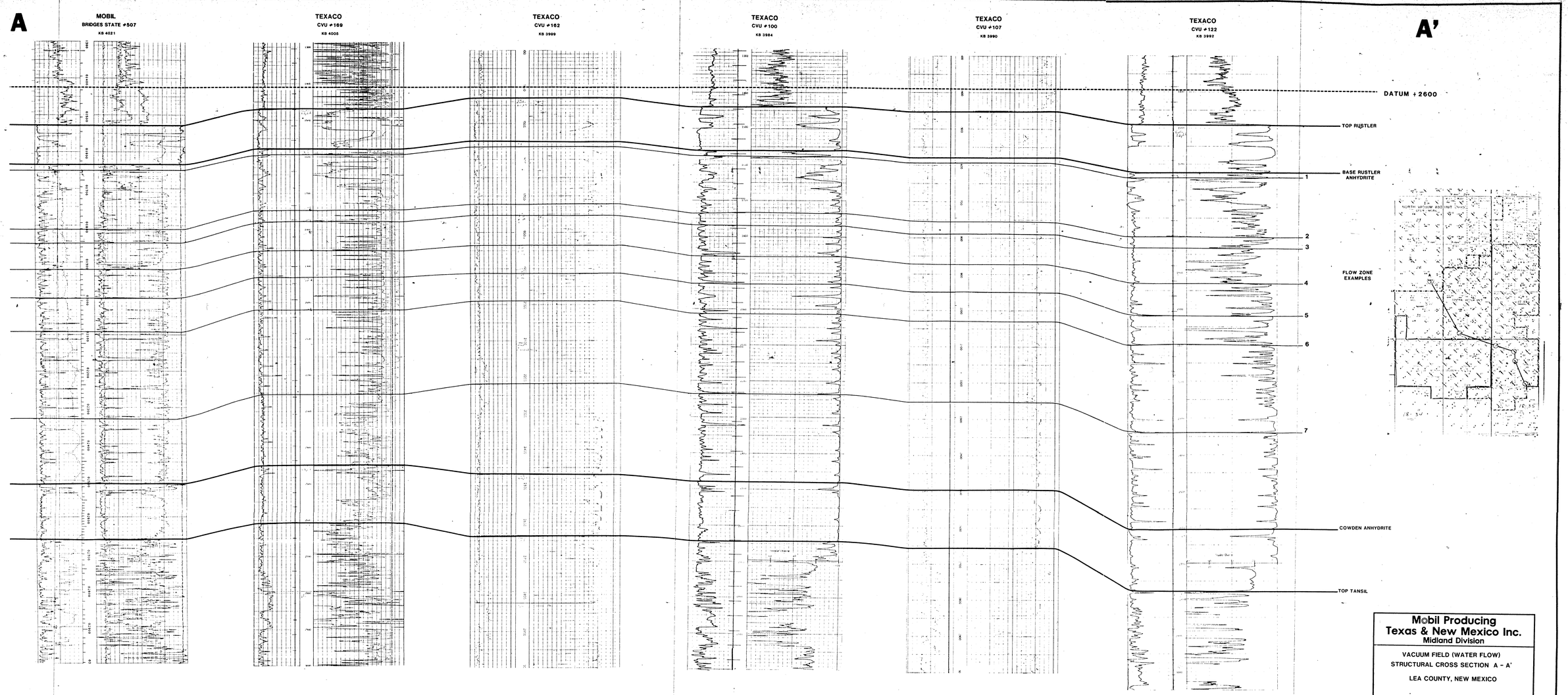


VACUUM FIELD (WATER FLOW)
GEOLOGICAL/GEOPHYSICAL COMMITTEE

BRIDGES STATE 507
COMPOSITE LOG

LEA COUNTY, NEW MEXICO

W.E.H. 12/87

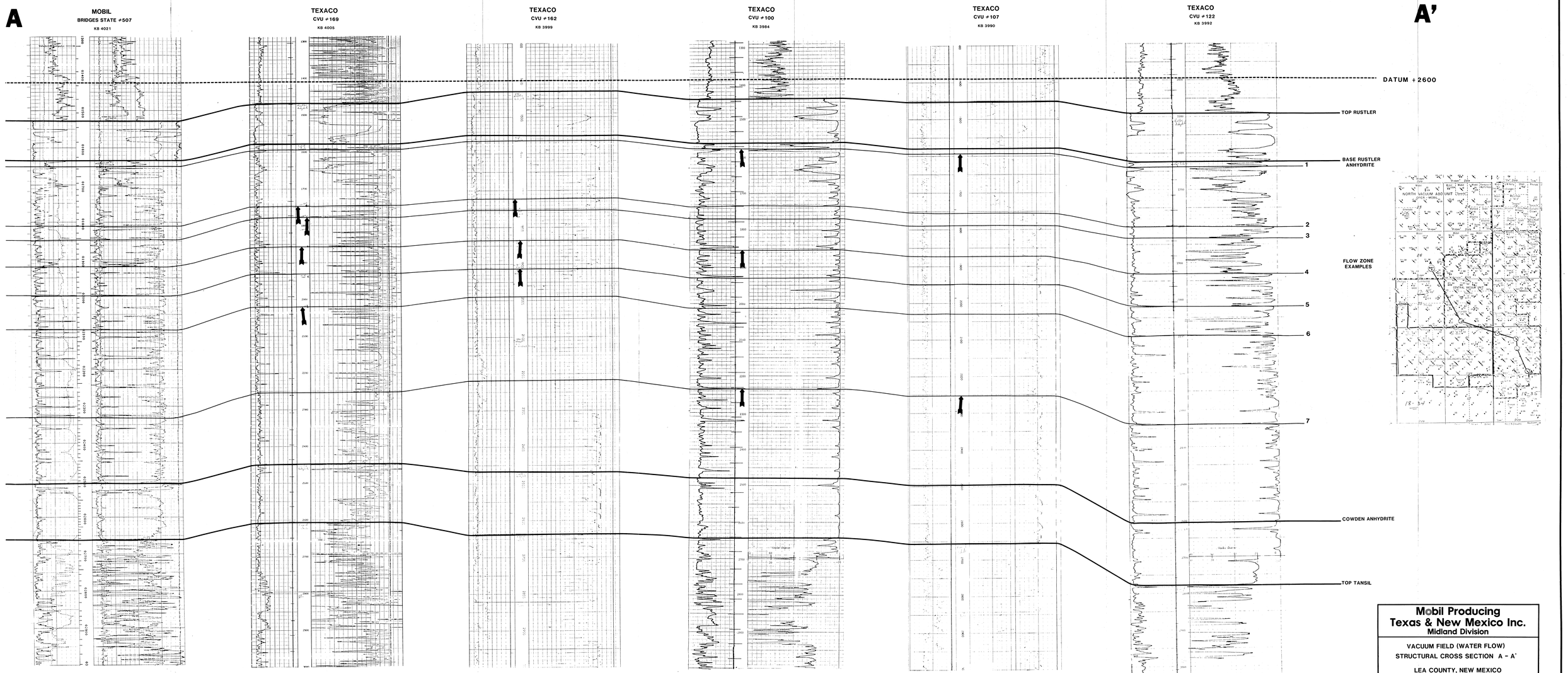


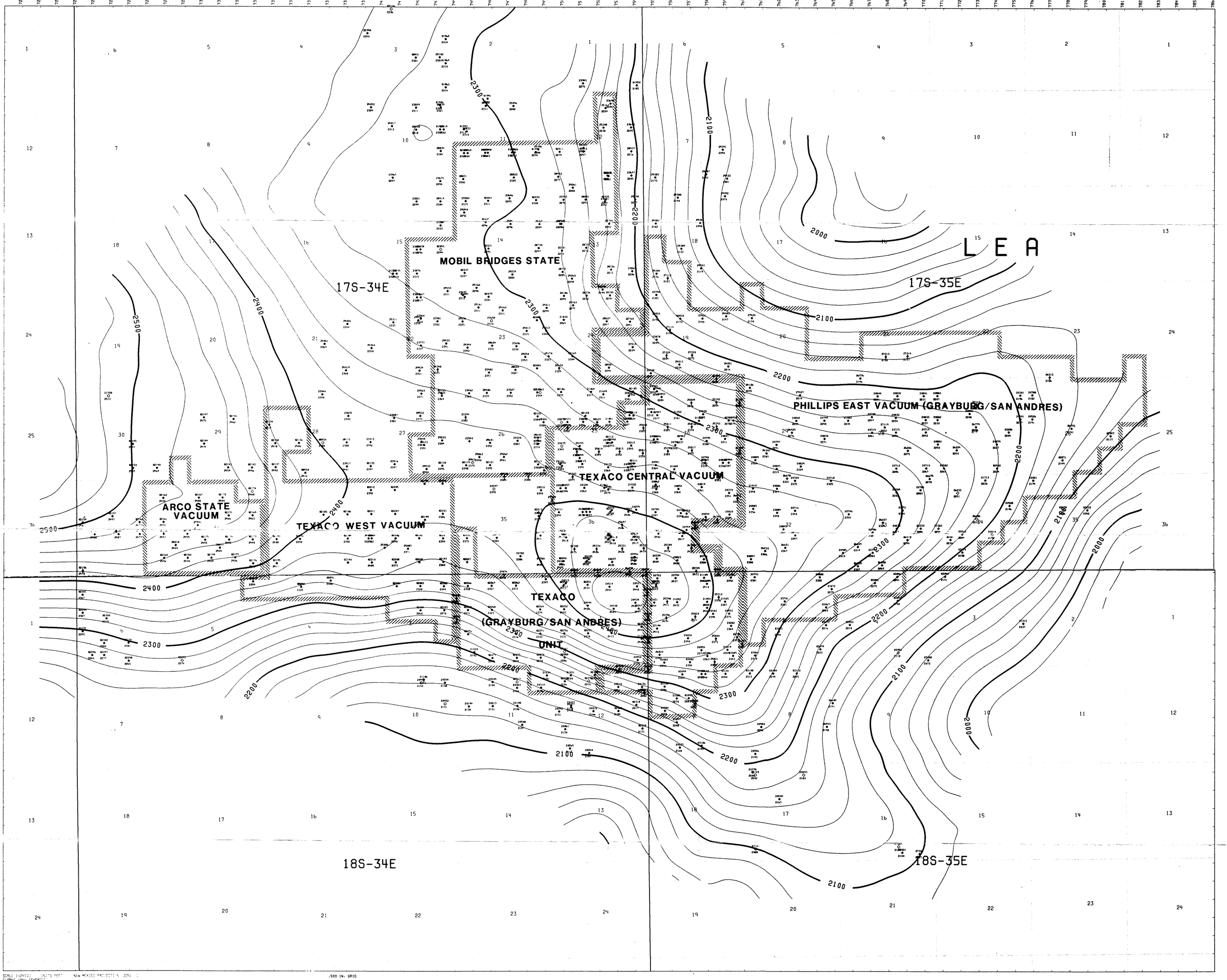
Mobil Producing Texas & New Mexico Inc.
Midland Division

VACUUM FIELD (WATER FLOW)
STRUCTURAL CROSS SECTION A - A'

LEA COUNTY, NEW MEXICO

W.E.H. (NO HORIZONTAL SCALE IMPLIED) 12/87


A
MOBIL
BRIDGES STATE #507
KB 4021
TEXACO
CVU #169
KB 4005
TEXACO
CVU #162
KB 3999
TEXACO
CVU #100
KB 3984
TEXACO
CVU #107
KB 3990
TEXACO
CVU #122
KB 3992
A'
DATUM +2600
TOP RUSTLER
BASE RUSTLER ANHYDRITE
1
2
3
4
5
6
7
FLOW ZONE EXAMPLES
COWDEN ANHYDRITE
TOP TANSIL
NORTH VACUUM ABO UNIT
Mobil Producing
Texas & New Mexico Inc.
Midland Division
VACUUM FIELD (WATER FLOW)
STRUCTURAL CROSS SECTION A - A'
LEA COUNTY, NEW MEXICO
W.E.H.
(NO HORIZONTAL SCALE IMPLIED)
12/87



SCALE 1:24000 UNITS FEET NEW MEXICO PROJECTION ZONE 3
CLARKE 1866 SPHEROID .500 IN. GRID

Mobil 86/12/02

0.00 2000.00 FEET

PRELIMINARY TOP SALT

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

TOP SALT STRUCTURE VALUES POSTED BELOW WELL SYMBOL

LEGEND

- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

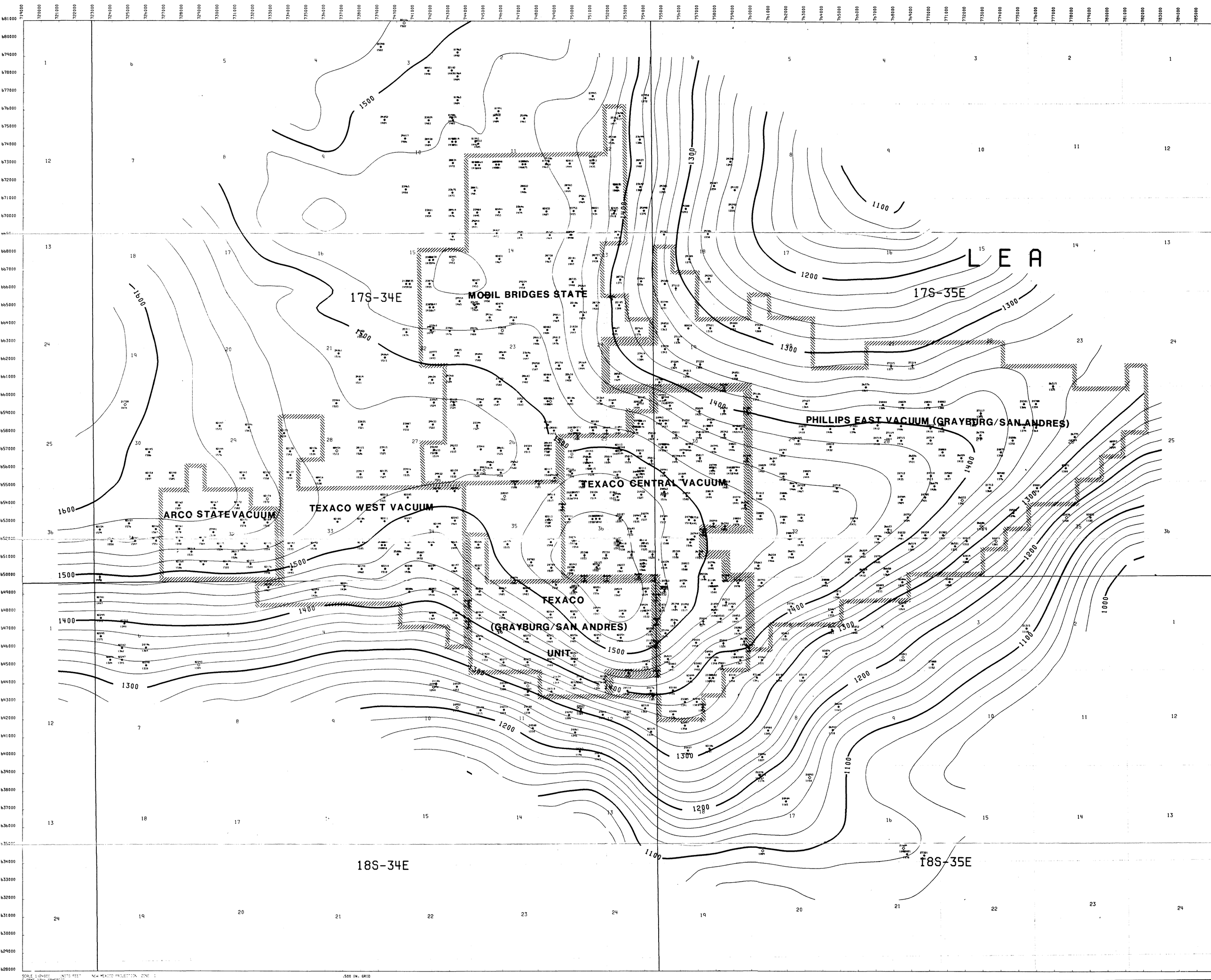
VACUUM FIELD WATERFLOW
GEOLOGICAL-GEOPHYSICAL COMMITTEE

VACUUM FIELD AREA
Lea County, New Mexico

PRELIMINARY TOP SALT

C.I. : 20'

WEH **12/86**



SCALE 1:24000 UNITS FEET NEW MEXICO PROJECTION ZONE 1 .500 IN. GRID
CLARKE 1866 SPHEROID

Mobil 86/12/04

0.00 2000.00 FEET

PRELIMINARY TOP COWDEN
LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL
COWDEN STRUCTURE VALUES POSTED BELOW WELL SYMBOL

LEGEND

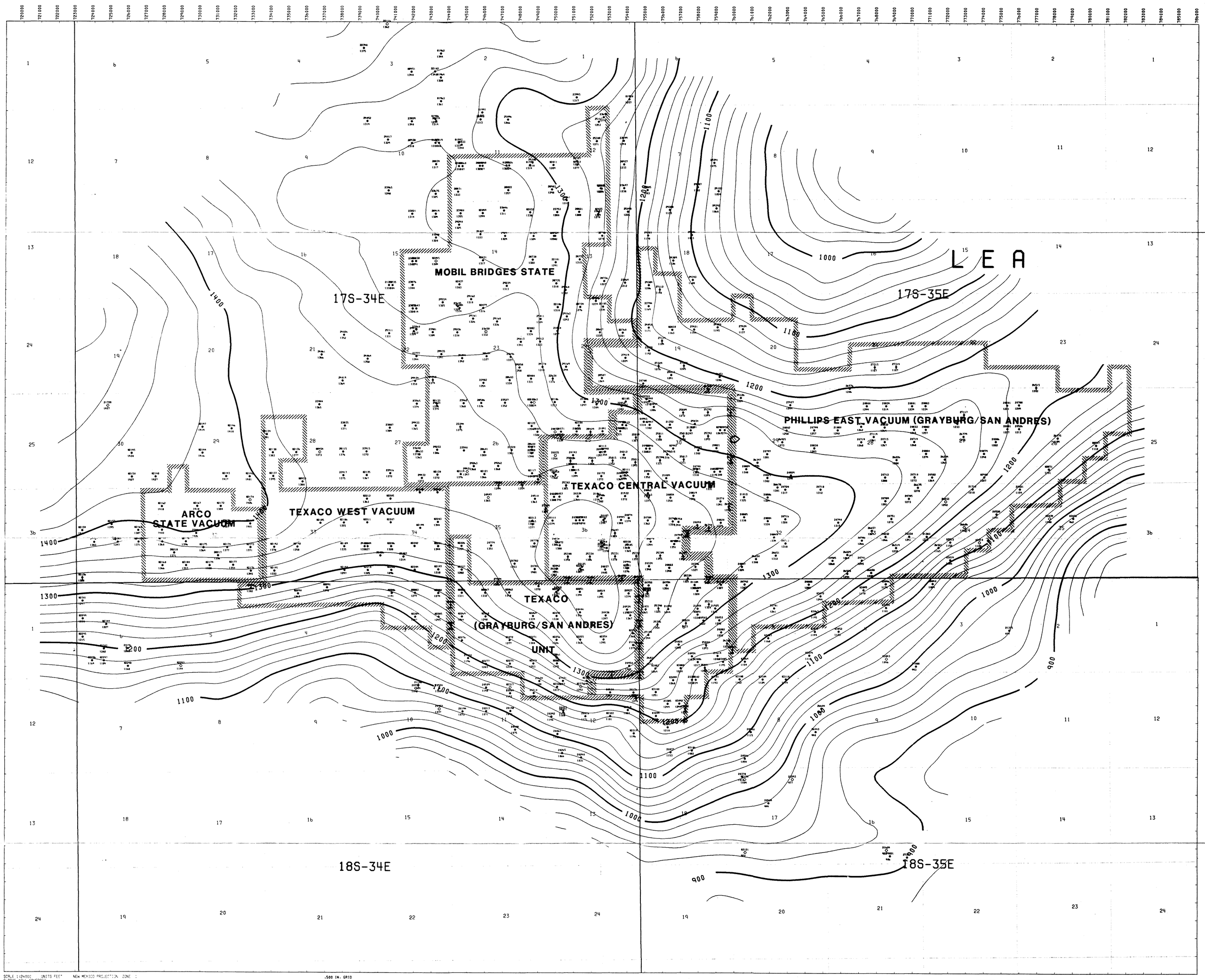
- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW
GEOLOGICAL-GEOPHYSICAL COMMITTEE

VACUUM FIELD AREA
Lea County, New Mexico

PRELIMINARY TOP COWDEN
C.I. : 20'

WEH 12/86



SCALE 1:24000 UNITS FEET NEW MEXICO PROJECTION ZONE : .500 IN. GRID
CLARKE 1866 SPHEROID

Mobil 86/12/04

0.00 2000.00 FEET

PRELIMINARY BASE SALT

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

BASE SALT STRUCTURE VALUES POSTED BELOW WELL SYMBOL

LEGEND

- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW

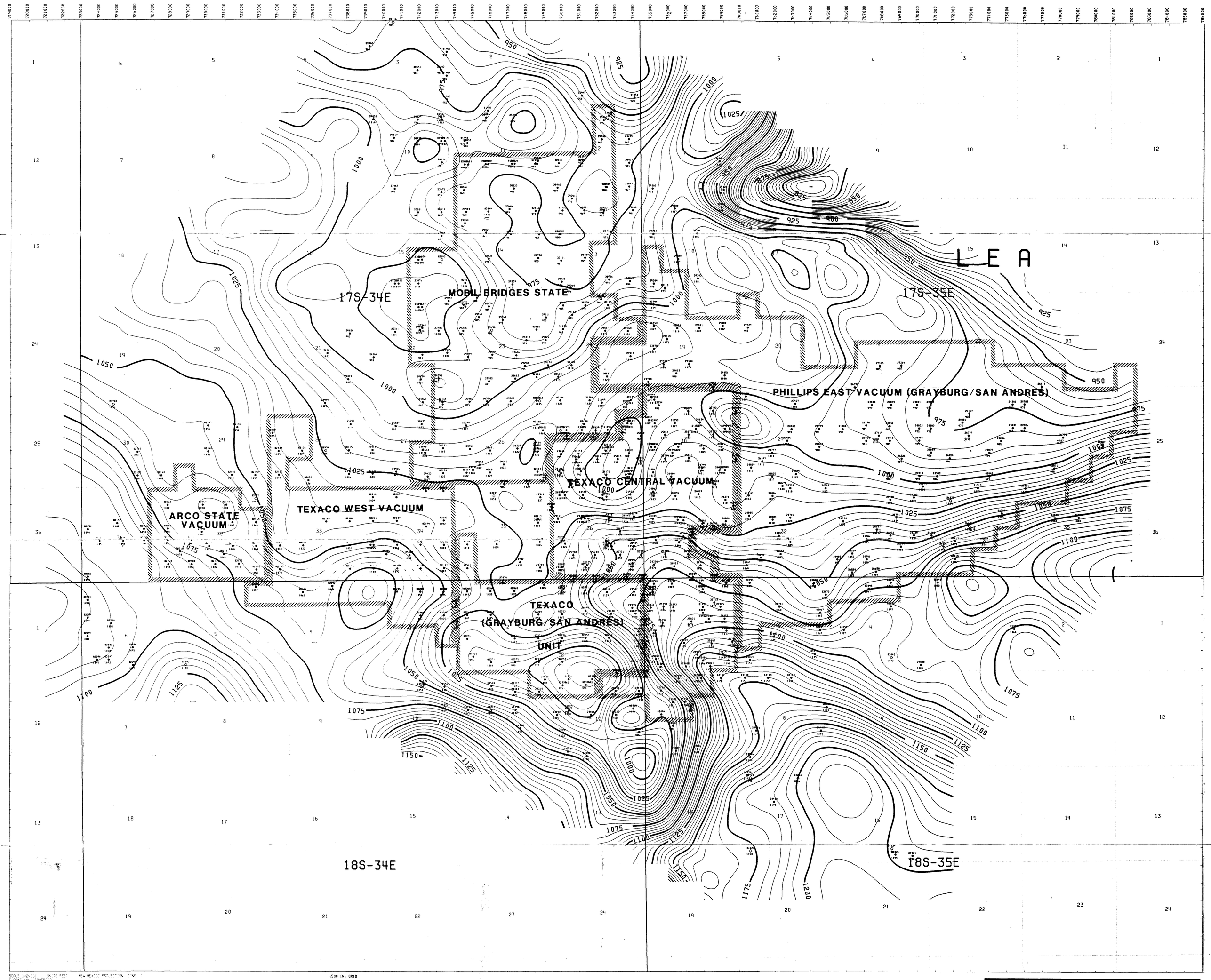
GEOLOGICAL-GEOPHYSICAL COMMITTEE

VACUUM FIELD AREA
Lea County, New Mexico

PRELIMINARY BASE SALT

C.I. : 20'

WEH **12/86**



SCALE 1:24000 UNITS FEET NEW MEXICO PROJECTION ZONE
CLARKE 1866 SPHEROID .500 IN. GRID

Mobil 86/12/04

0.00 2000.00 FEET

PRELIMINARY GROSS SALT ISOPACH

LAST 5 DIGITS OF API # POSTED ABOVE WELL SYMBOL

WELL ISOPACH VALUES POSTED BELOW WELL SYMBOL

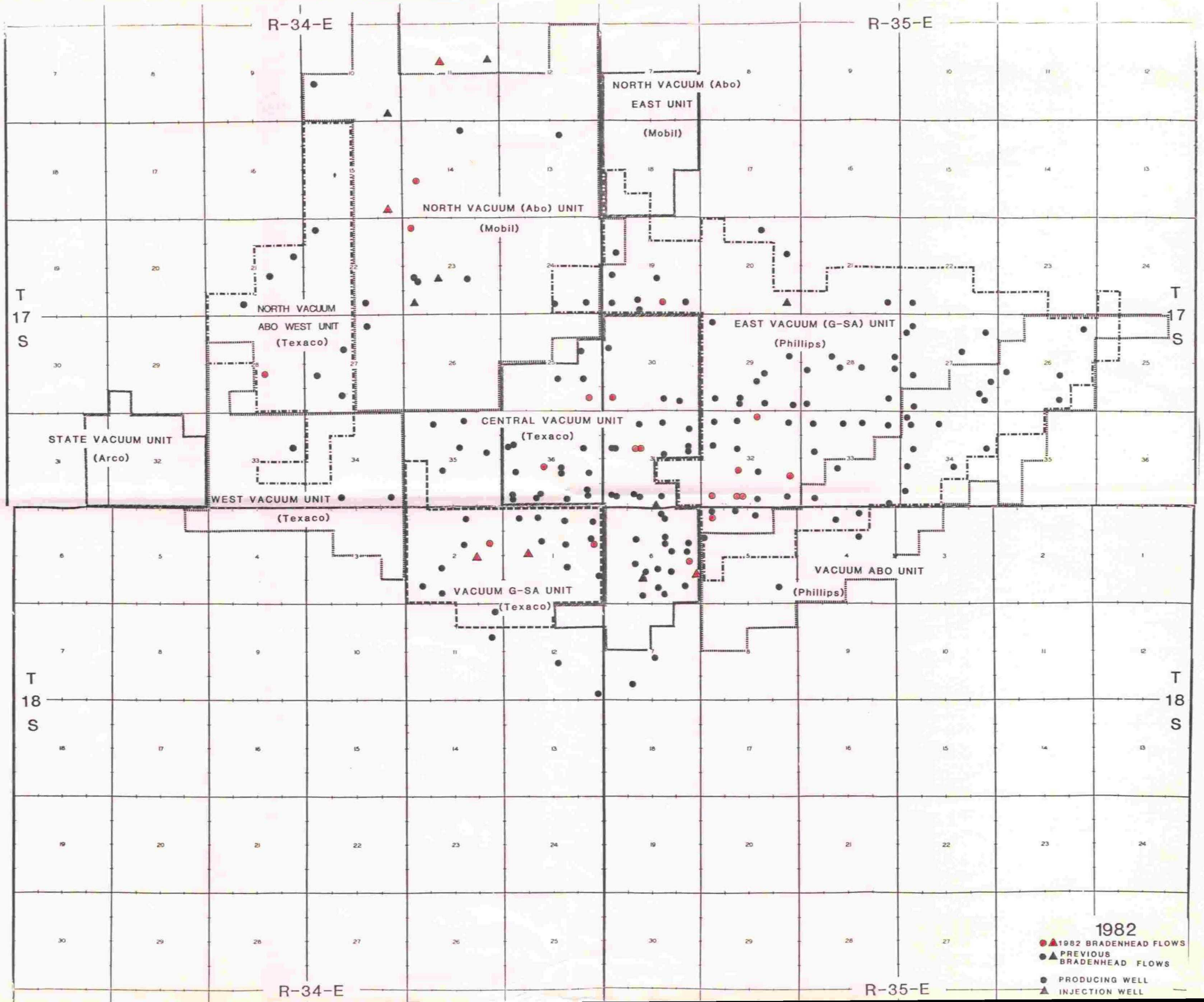
LEGEND

- OIL & GAS COMP.
- GAS WELL
- DRY HOLE
- OIL WELL
- WATER INJECTION WELL
- JUNKED AND ABANDONED
- UNKNOWN

VACUUM FIELD WATERFLOW
GEOLOGICAL-GEOPHYSICAL COMMITTEE

VACUUM FIELD AREA
Lea County, New Mexico
PRELIMINARY
GROSS SALT ISOPACH
C.I. : 5'

WEH 12/86


R-34-E
R-35-E
NORTH VACUUM (Abo)
EAST UNIT
(Mobil)
NORTH VACUUM (Abo) UNIT
(Mobil)
NORTH VACUUM
ABO WEST UNIT
(Texaco)
EAST VACUUM (G-SA) UNIT
(Phillips)
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STATE VACUUM UNIT
(Arco)
CENTRAL VACUUM UNIT
(Texaco)
WEST VACUUM UNIT
(Texaco)
VACUUM ABO UNIT
(Phillips)
VACUUM G-SA UNIT
(Texaco)
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18
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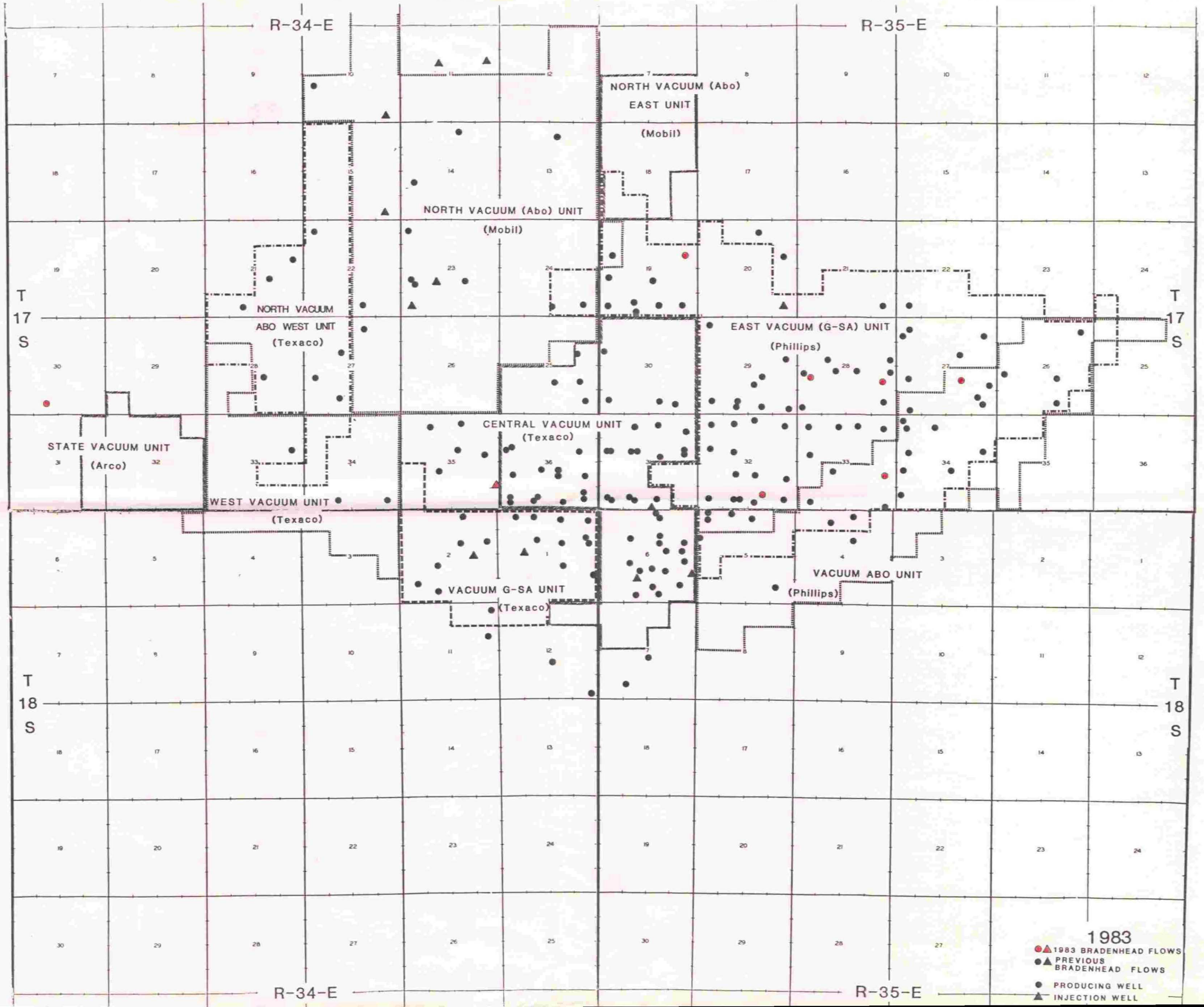
1982
1982 BRADENHEAD FLOWS
PREVIOUS BRADENHEAD FLOWS
PRODUCING WELL
INJECTION WELL


R-34-E
R-35-E
NORTH VACUUM (Abo)
EAST UNIT
(Mobil)
NORTH VACUUM (Abo) UNIT
(Mobil)
NORTH VACUUM
ABO WEST UNIT
(Texaco)
EAST VACUUM (G-SA) UNIT
(Phillips)
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CENTRAL VACUUM UNIT
(Texaco)
STATE VACUUM UNIT
(Arco)
WEST VACUUM UNIT
(Texaco)
VACUUM ABO UNIT
(Phillips)
VACUUM G-SA UNIT
(Texaco)
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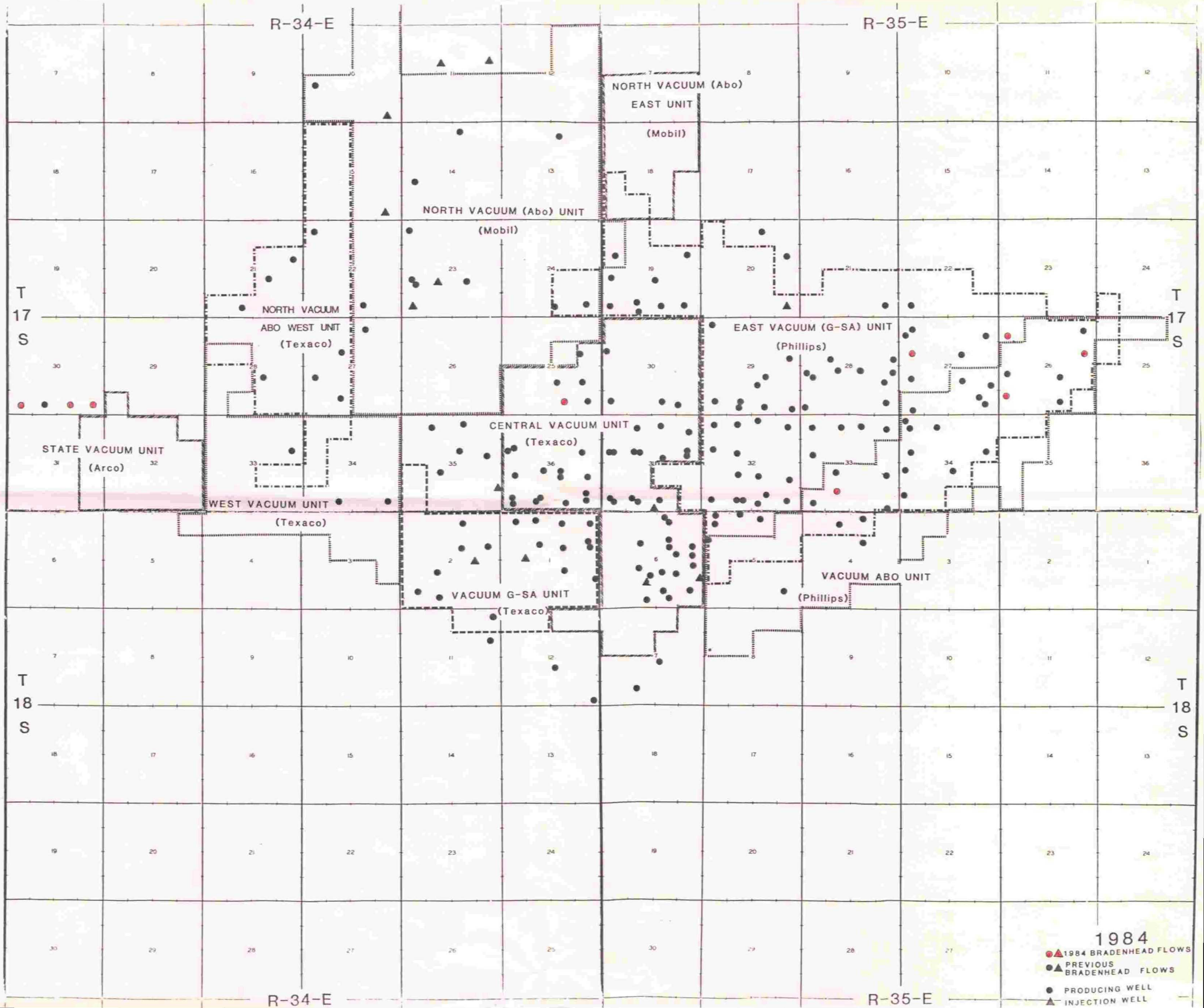
1983
1983 BRADENHEAD FLOWS
PREVIOUS BRADENHEAD FLOWS
PRODUCING WELL
INJECTION WELL


R-34-E
R-35-E
NORTH VACUUM (Abo)
EAST UNIT
(Mobil)
NORTH VACUUM (Abo) UNIT
(Mobil)
NORTH VACUUM
ABO WEST UNIT
(Texaco)
EAST VACUUM (G-SA) UNIT
(Phillips)
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(Texaco)
STATE VACUUM UNIT
(Arco)
WEST VACUUM UNIT
(Texaco)
VACUUM ABO UNIT
(Phillips)
VACUUM G-SA UNIT
(Texaco)
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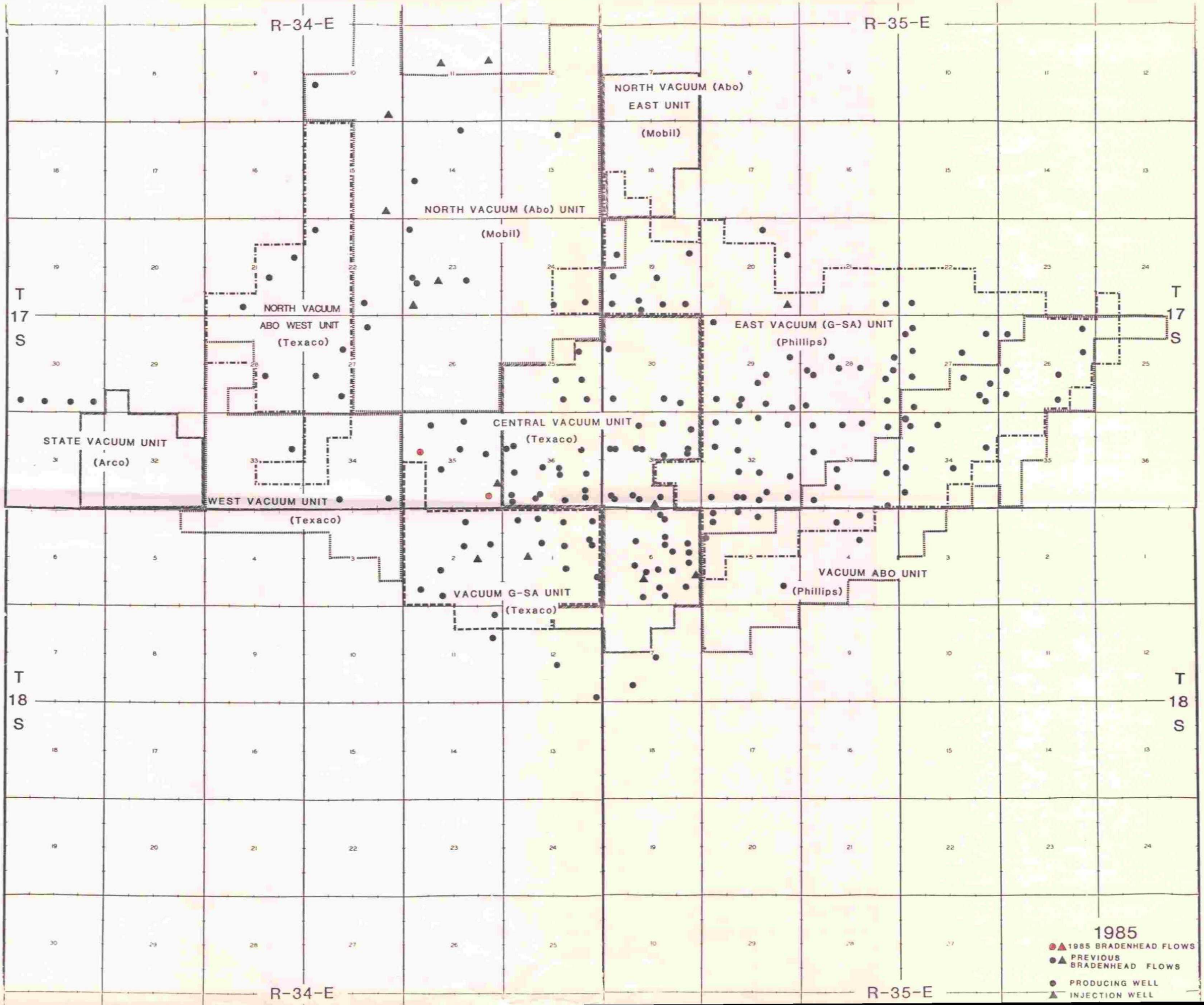
1984
1984 BRADENHEAD FLOWS
PREVIOUS BRADENHEAD FLOWS
PRODUCING WELL
INJECTION WELL


R-34-E
R-35-E
NORTH VACUUM (Abo)
EAST UNIT
(Mobil)
NORTH VACUUM (Abo) UNIT
(Mobil)
NORTH VACUUM
ABO WEST UNIT
(Texaco)
EAST VACUUM (G-SA) UNIT
(Phillips)
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STATE VACUUM UNIT
(Arco)
CENTRAL VACUUM UNIT
(Texaco)
WEST VACUUM UNIT
(Texaco)
VACUUM ABO UNIT
(Phillips)
VACUUM G-SA UNIT
(Texaco)
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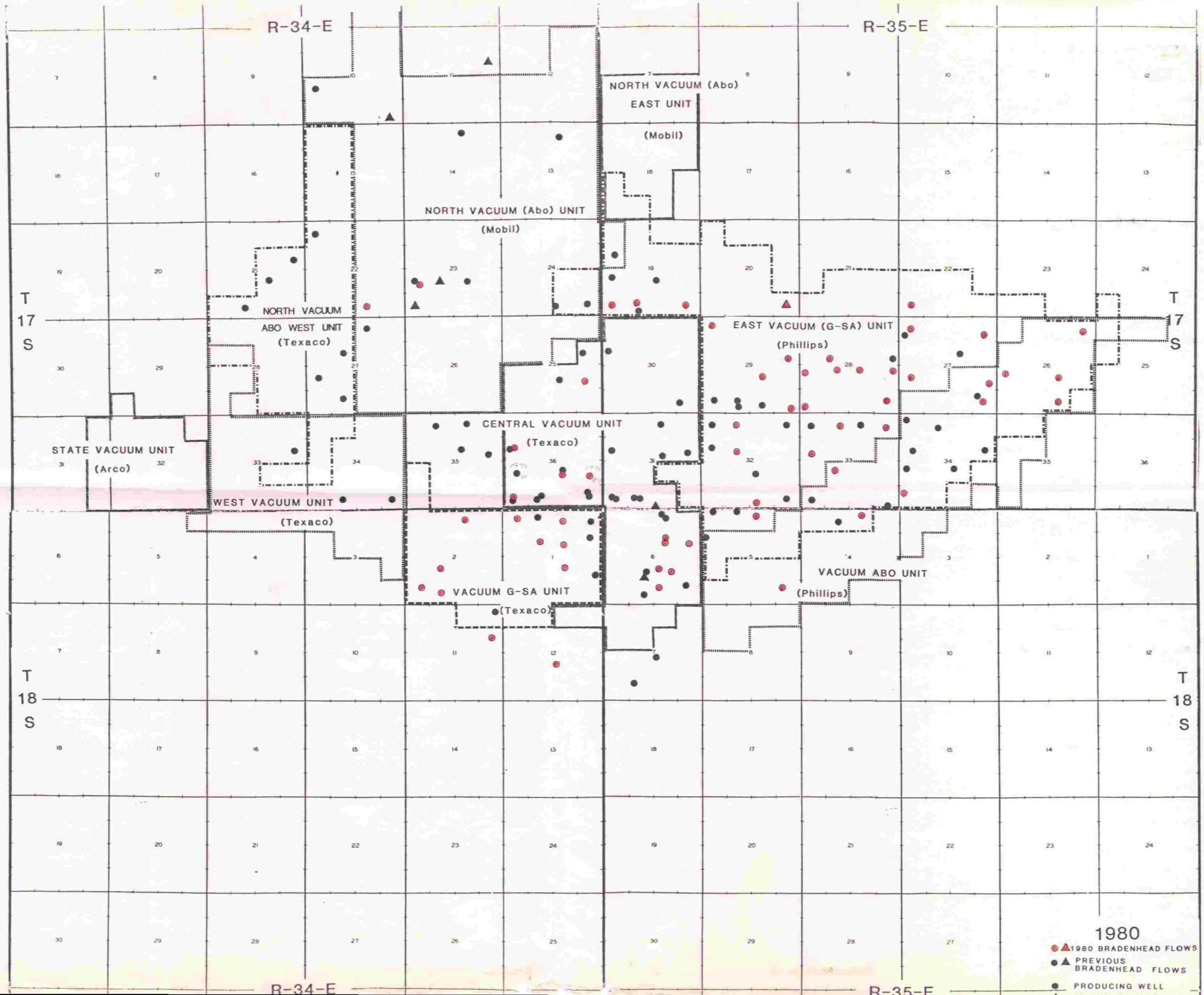
1985
1985 BRADENHEAD FLOWS
PREVIOUS BRADENHEAD FLOWS
PRODUCING WELL
INJECTION WELL


R-34-E
R-35-E
NORTH VACUUM (Abo)
EAST UNIT
(Mobil)
NORTH VACUUM (Abo) UNIT
(Mobil)
NORTH VACUUM
ABO WEST UNIT
(Texaco)
EAST VACUUM (G-SA) UNIT
(Phillips)
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CENTRAL VACUUM UNIT
(Texaco)
STATE VACUUM UNIT
(Arco)
WEST VACUUM UNIT
(Texaco)
VACUUM ABO UNIT
(Phillips)
VACUUM G-SA UNIT
(Texaco)
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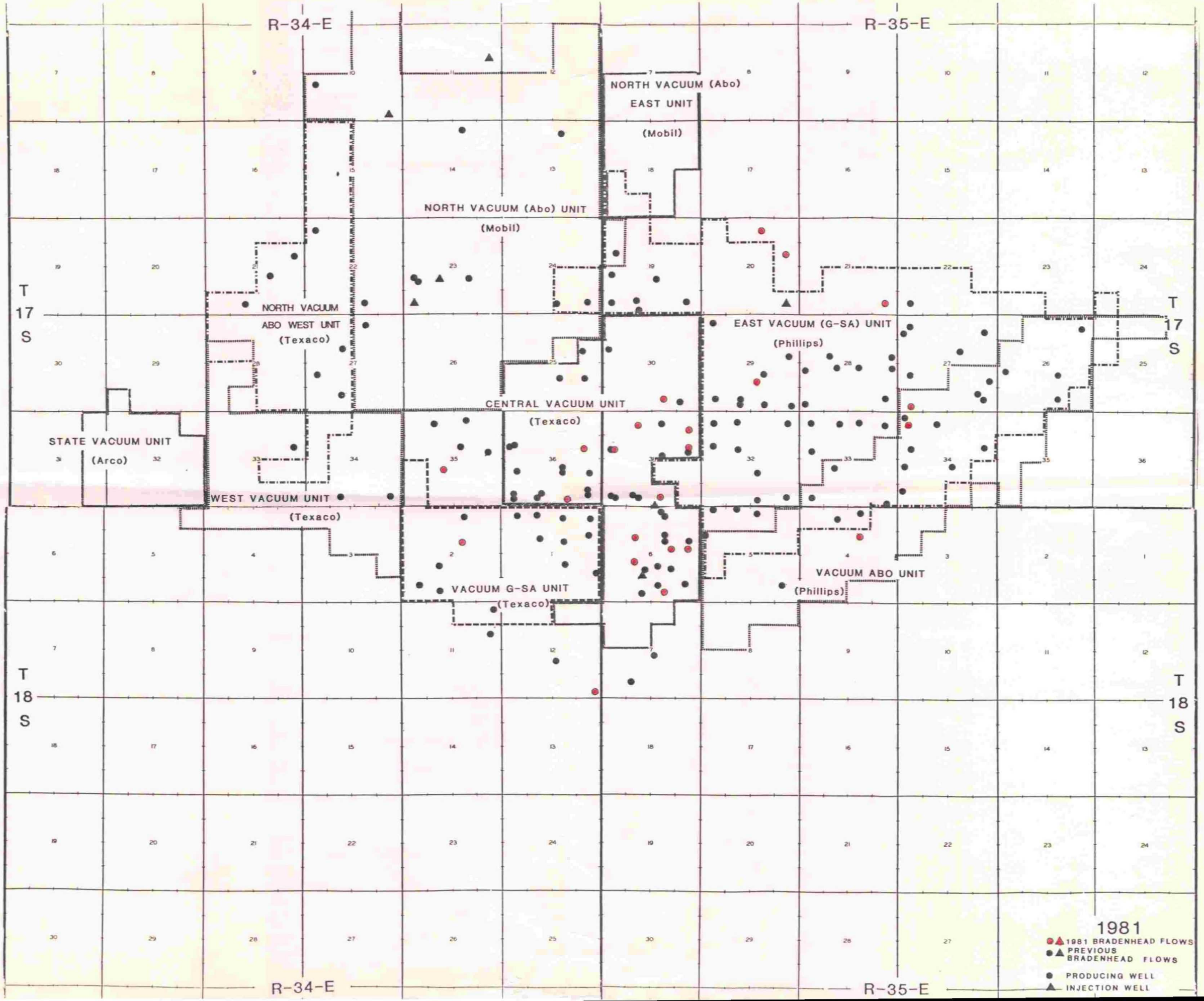
1980
1980 BRADENHEAD FLOWS
PREVIOUS BRADENHEAD FLOWS
PRODUCING WELL

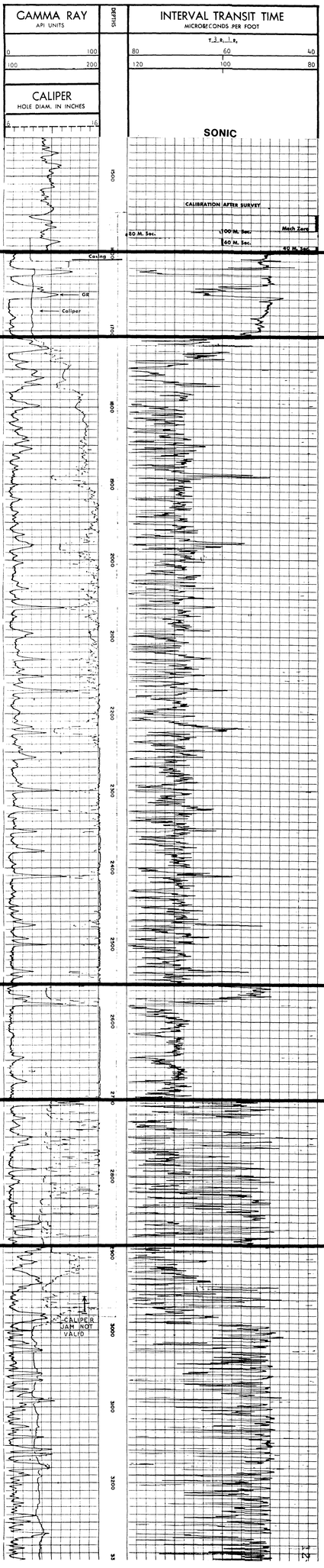

R-34-E
R-35-E
NORTH VACUUM (Abo)
EAST UNIT
(Mobil)
NORTH VACUUM (Abo) UNIT
(Mobil)
NORTH VACUUM
ABO WEST UNIT
(Texaco)
EAST VACUUM (G-SA) UNIT
(Phillips)
CENTRAL VACUUM UNIT
(Texaco)
STATE VACUUM UNIT
(Arco)
WEST VACUUM UNIT
(Texaco)
VACUUM G-SA UNIT
(Texaco)
VACUUM ABO UNIT
(Phillips)
T 17 S
T 18 S
1981
1981 BRADENHEAD FLOWS
PREVIOUS BRADENHEAD FLOWS
PRODUCING WELL
INJECTION WELL

TYPE LOG

VACUUM FIELD WATERFLOW

VACUUM FIELD

LEA COUNTY, NEW MEXICO



MOBIL BRIDGES STATE #115

KB 4006

900' FNL, 990'FEL

Sec.25, T17S, R34E

S RECEIVED	
BUTION	
FICE	
OR	

Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [X] Fee [ ]

5. State Oil & Gas Lease No.: B-1520

E OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER

E OF COMPLETION: LL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] OTHER

7. Unit Agreement Name:

8. Farm or Lease Name: Bridges State

ne of Operator: Mobil Oil Corporation

9. Well No.: 115

dress of Operator: Box 633, Midland, Texas 79701

10. Field and Pool, or Wildcat: Undesignated

ocation of Well

IT LETTER A LOCATED 900 FEET FROM THE North LINE AND 990 FEET FROM THE East LINE OF SEC. 25 TWP. 17-S RGE. 34-E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. *(Ready to Prod.)*	18. Elevations *(DF, RKB, RT, GR, etc.)*	19. Elev. Cashinghead
11-20-68	12-5-68	12-18-68	4018 Gr.	----

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
6242	6199	---	→	X	

24. Producing Interval(s), of this completion — Top, Bottom, Name
Vacuum Glorieta
6056 - 6067

25. Was Directional Survey Made: Yes

26. Type Electric and Other Logs Run: BHC-S-Gr-Caliper

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8" OD	24#	1608	12-1/4	975 x	---
5-1/2"	15.3# & 14#	6242	7-7/8	1415 x	---

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8 But.	6184	---

31. Perforation Record *(Interval, size and number)*
6056, 57, 58, 59, 60, 61, 62, 63, 64, & 6067

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6056 - 6067	2 JSDF

33. PRODUCTION

Date First Production	Production Method *(Flowing, gas lift, pumping — Size and type pump)*	Well Status *(Prod. or Shut-in)*
12-18-68	Pumping	Prod.

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas—Oil Ratio
1-3-69	24	2" Tub.	→	116	7	7	60

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API *(Corr.)*
---	----	→	116	7	7	39.0

34. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
Sold - Phillips Petroleum Company

Test Witnessed By: H. R. Elledge

35. List of Attachments
Drilling Summary

36. *I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.*

SIGNED K. J. McDaniel TITLE Authorized Agent DATE 1-7-69

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy	1598	T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt		T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt		T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates	2858	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers		T. Devonian		T. Menefee		T. Madison	
T. Queen	3770	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres	4457	T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta	5938	T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo		T. Bone Springs		T. Wingate		T.	
T. Wolfcamp		T.		T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T. Cisco (Bough C)		T.		T. Penn. "A"		T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	450		Red Beds				
450	875		Red Beds				
875	1156		" "				
1156	1610		Red Bed & Anhy.				
1610	2088		Anhy. & Salt				
2088	2576		Anhy. & Salt				
2576	3070		Anhy. & Salt				
3070	3359		Anhy. & Lime				
3359	3849		Anhy.				
3849	4280		Anhy.				
4280	4366		Anhy.				
4366	4564		Anhy. & Lime				
4564	5036		Lime				
5036	5593		Lime				
5593	5752		Lime				
5752	6207		Lime & Dolomite				
6207	6242		Dolomite				

BRIDGES STATE #115, 990' FNL & 990' FEL Sec 25, T-17-S, R-34-E, Lea Co
OBJECTIVE: Drill development well to Glorieta. AFE 7231 - Mobil Intr
Est Cost $64,000.

11/12/68 Staked loc, contract awarded to Leatherwood Drlg Co.

BRIDGES STATE #115
11/13 Bldg pad.

BRIDGES STATE #115
11/14 Bldg pad.

BRIDGES STATE #115
11/15 Dirt work complete. WOR.

BRIDGES STATE #115
11/18 Leatherwood Drlg Co MIT today.

BRIDGES STATE #115
11/19 MIT - prep to RU.

BRIDGES STATE #115
11/20 RUT - prep to spud.

BRIDGES STATE #115
11/21 (1) 1105 drlg red bed, 12¼" hole, 3/4 @ 935. S. Mud.
Leatherwood Drlg Co spud in @ 9:00 a.m. 11/20/68.

BRIDGES STATE #115
11/22 (2) 1610 ND anhy, 12¼" hole, 3/4 @ 1610. S. Mud.
Ran 37 jts 1610' 8-5/8 24# H-40ST&C csg, Howco now cementing csg @ 1608.

BRIDGES STATE #115
11/23 (3) 1610 WOC 8-5/8 csg, Howco cemented 8-5/8 csg @ 1608 w/ 600x Class A cement w/ 6% gel + 200x Incor Neat, all cement contained 2% CaCl2, PD 7:30 a.m. 11/22/68, cement did not circ, WOC 4 hrs, Howco ran temp survey indicated top of cement @ 400, ran 1" pipe down outside of csg, stopped @ 120', Howco cemented thru 1" pipe w/ 175x Incor Neat cement w/ 2% CaCl2, job compl @ 3:00 p.m. 11/22/68, NU csg, inst'l BOP's, prep to drill 7-7/8" hole.

11/25 (5) 3105 drlg anhy, 7-7/8" hole, 2° @ 3000. Br wtr.
WOC total 31½ hrs, tested 8-5/8 csg w/ 1000#/ok.

BRIDGES STATE #115
11/26 (6) 3455 drlg anhy, 7-7/8" hole, 2¼ @ 3424. Br wtr.

SHAFTER LAKE SAN ANDRES UNIT #285
11/27 (4) 1738 drlg RB-anhy, 7-7/8" - Native.
Spot 110 bbls oil, got loose 6:00 p.m. 11/26/68. Dev 2-3/4 @ 1634.

BRIDGES STATE #115
11/29 (9) 4355 drlg lm & anhy, 7-7/8" hole, 1½ @ 4176. Br wtr.

BRIDGES STATE #115
11/30 (10) 4564 drlg lm, 7-7/8 hole, 1½ @ 4366. Br wtr.

12/2 (12) 4878 ND dolo, 7-7/8" hole, 1½ @ 4850. 9.8-31-14.0.
Fishing past 5 hrs for 9 jts 4½ DP, 20 - 6-3/8 DC's & bit, ran 7" overshot, caught fish, now POH.

BRIDGES STATE #115
12/3 (13) 5174 drlg dolo & lm, 7-7/8" hole, 1½ @ 5036. 9.9-31-14.0.
5 add'l hrs rec fish.

BRIDGES STATE #115
12/4 (14) 5572 drlg dolo, 7-7/8" hole, 1-3/4 @ 5400. 9.9-32-14.0, 1% oil.

BRIDGES STATE #115
12/5 (15) 5864 drlg dolo, 7-7/8" hole, 2° @ 5680. 10.0-32-16.0, 1% oil.

BRIDGES STATE #115
12/6 (16) 6242 ND dolo, 7-7/8" hole, NND. 10.0-35-12.0.
Circ 3 hrs @ 6242, now POH to run OH logs.

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12/7 6242 ND dolo, 7-7/8" hole, NND. 10.0-35-13.0,
Finish POH, RU Schl, ran BHC-S GR-Caliper 1610-6243, GR-D-6243 & LL 2600-6
in total 6½ hrs, ran bit to bottom, circ 2 hrs, P & LD-DP & DC's, now running
5½ csg.

12/9 6242 TD, WOC 5½ csg.
Finish running 5½ csg to 6242, 29 jts 15.5# J-55 1770' → 163 jts 14.0# J-55
5072', Howco cemented on bottom @ 6242 w/ 1265x TLW + 150x Incor Neat
cement, PD @ 10:00 a.m. 12/7/68, calculated top of cement 450, nipple up 5½
csg. Rel Leatherwood Drlg Co @ 2:00 p.m. 12/7/68, MOT.

BRIDGES STATE #115, 6242 TD.
12/10 Finish MOT, instl unit anchor, prep to complete.

BRIDGES STATE #115, 6242 TD.
12/11 MIRU X-Pert Well Serv DD unit @ 10:30 a.m., inst'l BOP, ran 4-3/4 bit &
csg scraper on 2-3/8 tbg to 6223. SD for nite.

II BRIDGES STATE #115, 6242 TD
12/12 Displace water w/lease oil, POH w/tbg & bit, Schlumberger ran GR-Collar-Corr
log from 5800 to 6199 PBTD, then perforated 5-1/2" csg in the Glorieta @ 6057,
61, 63, 67, 69, 72, 75, 78, 81, 85 & 6087 w/2 JSPF - total of 22 holes, then
ran BOT pkr on 2-3/8 tbg set @ 6030, swab 21 BLO/1 hr, sw dry 1 hr, SD for
nite.

BRIDGES STATE #115, 6242 TD, 6199 PBTD, Glor (6057-6087).
III. 12/13 SI 13 hrs, TP 0, 500' FIH, BJ Serv washed Glor perfs w/ 500 gals 15% NE
acid, ¼ BPM rate, lost 300 gals while washing, pump 200 gas in form,
TP 100, ¼ BPM, job compl @ 11:00 a.m. 12/12/68, sw 27 BLO + 10 BAW + 16 BNO/6
hrs, L hr sw 8 bbls fluid, S/O 60% wtr, 1000' FIH, sl sh of gas. SD for nite.
Lack 2 BAW to rec. Cont to swab.

BRIDGES STATE #115, 6242 TD, 6199 PBTD, Glor (6057-6087).
12/14 S 6 BNO + 2 BAW + 48 BSW/10 hrs, 600' FIH, no gas, L hr sw 6 bbls, S/O 95% wtr.
IV. SI 13 hrs, TP 20, 1700' FIH.

12/16 S 1 BNO + 25 BSW/4 hrs, POH, run RTTS pkr & Howco sqzd Glor perf w/ 200x TLN
Max Press 6000, rev out 110x, compl 5:00 p.m. 12/14/68, POH, RU C. B. Reynolds
rev unit, ran 4-3/4 bit, 5½" csg scraper, 2 - 3½ DC on 2-3/8 tbg, drld cement
5800-5953 in 5 hrs, SD for nite, cont to DO.

BRIDGES STATE #115, 6242 TD, 6199 PBTD.
12/17 Drill out cement 5953-6095 in 5 hrs, test perf to 1500#/30 min/ok, displ
hole to oil, POH, Schl perf Glor 6056; 6057; 6058; 6059; 6060; 6061; 6062;
6063; 6064; 6067 - 2 SPF, prep to test.

BRIDGES STATE #115, 6242 TD, 6199 PBTD, Glor (6056-6067).
12/18 Ran BOT pkr on 2-3/8 tbg, set @ 6030, then sw 21 BLO/2 hrs, sw dry/3 hrs,
BJ Serv washed perfs w/ 500 gals 15% NE acid/2 hrs, then pumped acid into
form, TTP 2000-2500, rate 1/3 BPM, ISIP 1900, 5 min 300, job compl @ 5:15 p.m.
12/17/68. SI & SD for nite.

BRIDGES STATE #115
12/19 6242 TD, 6199 PBTD, Glor (6056-6067).
S 24 BLO + 11 BNO + 7 BAW/9 hrs, L hr sw 4 bbls, L hr S/O 50% AW, 400' FIH,
sl sh of gas. SD for nite. - 5 BAW to rec.

BRIDGES STATE #115, 6242 TD, 6199 PBTD, Glor (6056-6067).
12/20 S 36 BNO + 5 BAW + 10 BSW/10 hrs, L hr sw 4 bbls, S/O 20% wtr, 300' FIH,
sl sh of gas, prep to put on pump.

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BRIDGES STATE #115, 6242 TD, 6199 PBTD, Glor (6056-6067)

12/21 Pulled tbg & BOT pkr, ran 199 jts 2-3/8" Buttress tbg, orange peeled to 6184', T. perfs. 6150-53, SN 6149, remove BOP, inst. well head, rig down rel. X-pert Well Ser. Unit @ 3:00 p.m. 12-20-68, rel to prod. to set pumping unit & run rods -138 BLO

BRIDGES STATE #115, 6242 TD, 6199 PBTD, Glor (6056-6067)

12/23 Installing pumping unit & waiting on electricity.
12/24 No report.

BRIDGES STATE #115, 6242 TD, 6199 PBTD, Glor (6056-6067)

12/26 Waiting on electricity.

BRIDGES STATE #115, 6242 TD, 6199 PBTD Glor Perfs (6056-6067)

12/27 Waiting on electricity.

BRIDGES STATE #115, 6242 TD, 6199 PBTD.

12/28 WO elec.
12/30 WO elec.

BRIDGES STATE #115, 6242 TD, 6199 PBTD.

12/31 WO elec.

BRIDGES STATE #115, 6242 TD, 6199 PBTD.

1/1/69 Hooking up elec.
1/2 Finished hooking up elec, then P 53 BLO + 6 bbls form wtr/15 hrs. - 85 BLO.

BRIDGES STATE #115, 6242 TD, 6199 PBTD

1/3 P 85 BLO + 9 BNO + 4 Bbls formation wtr/24 hrs. Prepare to potential.

BRIDGES STATE #115, 6242 TD, 6199 PBTD.

1/4/69 POTENTIAL NMOCC POT TEST: P 116 BNO + 7 bbls form wtr/24 hrs. GOR 60/1, Grav 39.0 @ 60. Allow 80 BOPD, Top Field Allow 80. Compl 12/19/68. Vacuum-Glor Field, Lea Co, N.M.
FINAL REPORT.