ATTACHMENT No. 1

Standard of Texas
Cities Service
Phillips
Mobil
Phillips
Penrose
Standard of Texas
"State No. 5"
"State-K"
"State-P"
"Santa Fe"
"Scarborough"
Great Western
Standard of Texas
Shell "V"
Phillips
Phillips
Shell D/R
Drlg. & Expl.
Phillips H.B.P.
"Santa Fe"
Phillips
Phillips H.B.P.
DRILLING
"Santa Fe"
"State No. 4"
"State-V"
SANTA FE BATTERY No. 14
Santa Fe
"State-W"
"State-E"
"State"
Mobil
Phillips
Phillips
T. P. C. & O. 12-15-63
Phillips H.B.P.
Jones
"State-M"
Santa Fe
"Santa Fe"
"Santa Fe"
State
Standard of Texas
Cities Service
"State No. 6"
State

-27- -26- -25-
-34- -35- -36-

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Appl EXHIBIT NO. 1
CASE NO. 2949

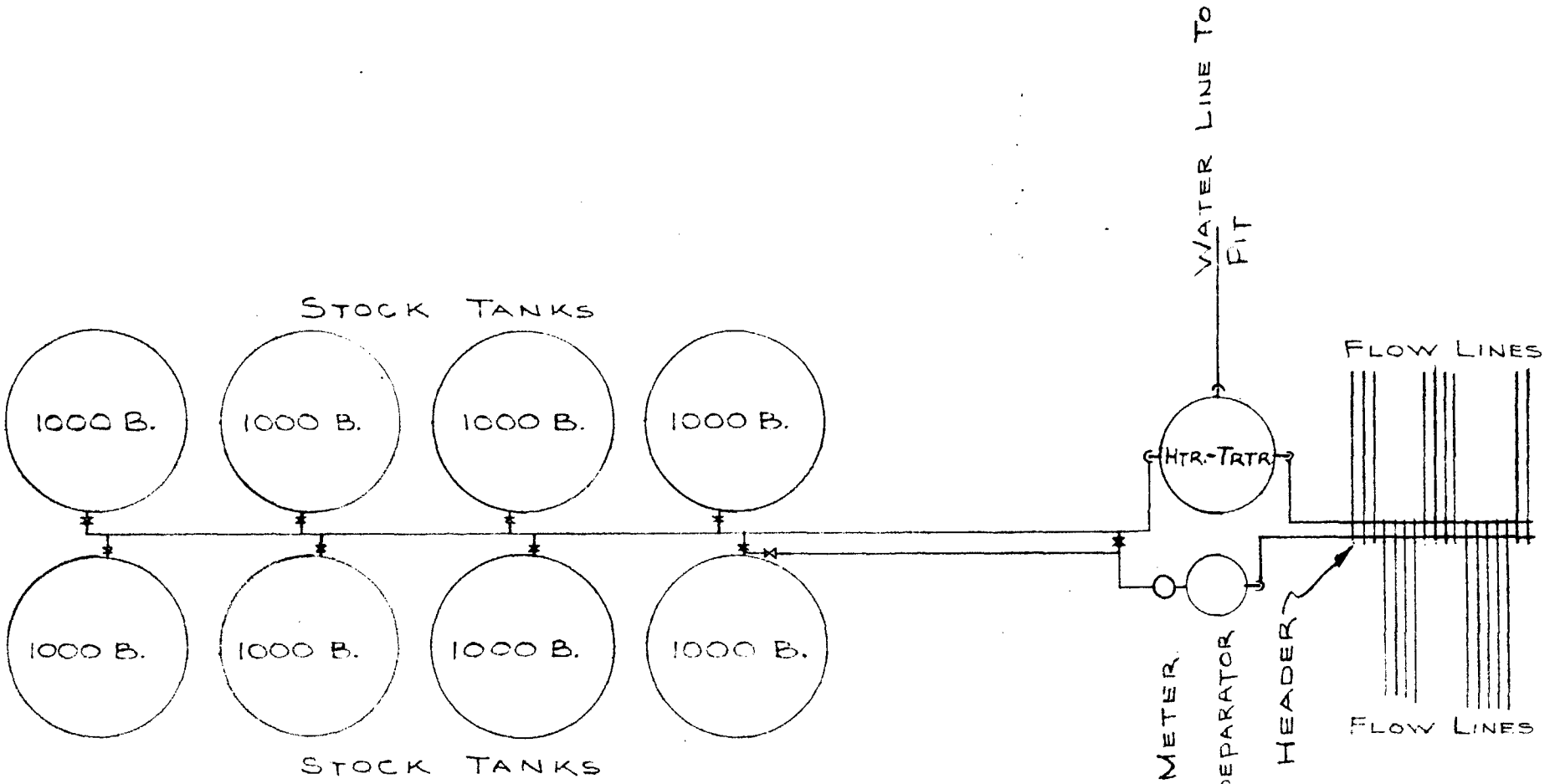
PHILLIPS PETROLEUM COMPANY
PLAT
WELLS PRODUCING INTO
SANTA FE BATTERY No. 14
VACUUM ABO REEF POOL
LEA COUNTY, N.M.

SCALE 1"=1000'

⊙ - ABO REEF WELLS

T-17-S

R-35-E



BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 2
CASE NO. 2949

SCHEMATIC DIAGRAM
PHILLIPS PETROLEUM COMPANY
SANTA FE BATTERY NO. 14
VACUUM ABO REEF POOL - LEA COUNTY, N.M.

Form 203 5-57—78731-D

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
Appl EXHIBIT NO. 3
CASE NO. 2949

PHILLIPS PETROLEUM COMPANY

COST ANALYSIS

REQUEST FOR EXCEPTION TO NMOCC RULE No. 309A TO PERMIT MORE THAN 16 WELLS TO BE PRODUCED INTO ONE TANK BATTERY
VACUUM ABO REEF POOL - LEA COUNTY, NEW MEXICO

I. Assume 19 wells producing into two separate tank batteries
   A. 16 wells in existing Santa Fe Battery No. 14
      1. Daily production - 15 wells x 117 BOPD (Top Allowable) + 11 BOPD (Santa Fe No. 58) = 1766 BOPD
      2. Storage Required (Based on 4 days storage capcity) - 1766 BOPD x 4 days = 7064 Bbls.
      3. Number of 1000 bbl. tanks required - 7064/940 = 7.5 tanks

      There are presently 8 - 1000 barrel tanks at Santa Fe Battery No. 14; therefore, additional tankage will not be required.

   B. 3 wells in new tank battery
      1. Daily Production - 3 wells x 117 BOPD = 351 BOPD
      2. Storage Required = 351 BOPD x 4 = 1404 Bbls.
      3. Number of 1000 barrel tanks required - 1404/940 = 1.5 tanks

      Cost of New Tank Battery with 2 - 1000 barrel tanks:

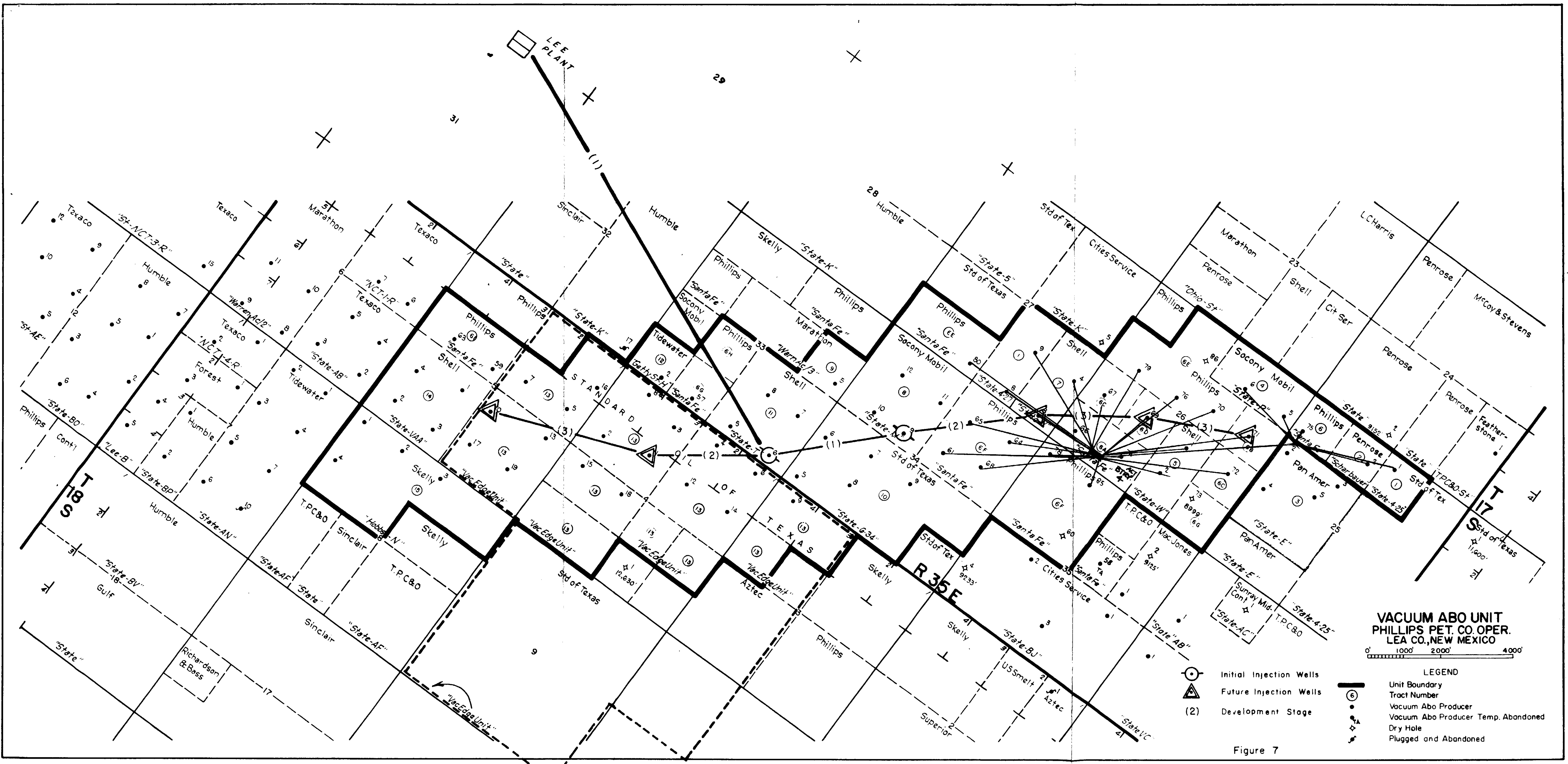
2 - 1000 bbl. tanks "B" Cond. @ $2930	$5860	
4' heater-treater	$2590	
Test separator complete with meter	940	
Line Pipe	950	
Miscellaneous Valves and Fittings	1000	
TOTAL TANGIBLES		$11,340
Roustabout Labor 72 hrs. x $16/hr.	$1152	
Welding, Tank Crew, and Painting	900	
Dirt Work	500	
Trucking	400	
Supervision	125	
INTANGIBLES		$3,077
TOTAL COST		$14,417

II. Assume 19 wells producing into one tank battery (Santa Fe Battery No. 14)
   1. Daily Production - 18 wells x 117 + 11 = 2117 BOPD
   2. Storage Required - 2117 x 4 = 8468 Bbls.
   3. Number of 1000 barrel tanks required - 8468/940 = 9 tanks

   Cost to add one 1000 barrel tank to Santa Fe Battery No. 14

1 - 1000 bbl. tank - "B" Cond.	$2930	
Miscellaneous Valves and Fittings	240	
TOTAL TANGIBLES		$3170
Roustabout Labor 20 hrs.x$16/hr.	$320	
Miscellaneous Labor	490	
Supervision	50	
INTANGIBLES		$860
TOTAL COST		$4030

SAVINGS IN INVESTMENT BY PRODUCING MORE THAN 16 WELLS INTO SANTA FE BATTERY No. 14 = $14,417 - $4030 = $10,387


VACUUM ABO UNIT
PHILLIPS PET. CO. OPER.
LEA CO., NEW MEXICO
0' 1000' 2000' 4000'
LEGEND
Unit Boundary
Tract Number
Vacuum Abo Producer
Vacuum Abo Producer Temp. Abandoned
Dry Hole
Plugged and Abandoned
Initial Injection Wells
Future Injection Wells
(2) Development Stage
LEE PLANT
T 17 S
T 18 S
R 35 E
STANDARD OIL OF TEXAS
Figure 7