Case No:
2935

Large
Exhibits

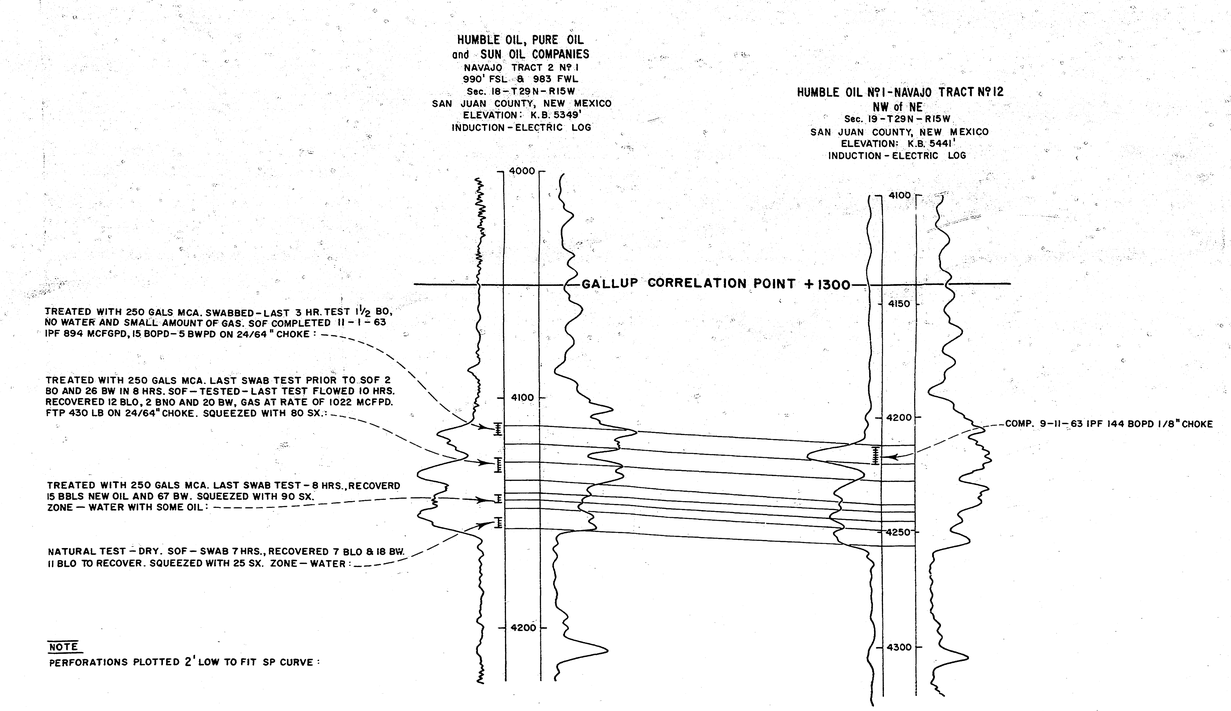
EXHIBIT Nº 7

HUMBLE OIL & REFINING COMPANY

STRUCTURAL CROSS-SECTION

SOUTH WATERFLOW AREA

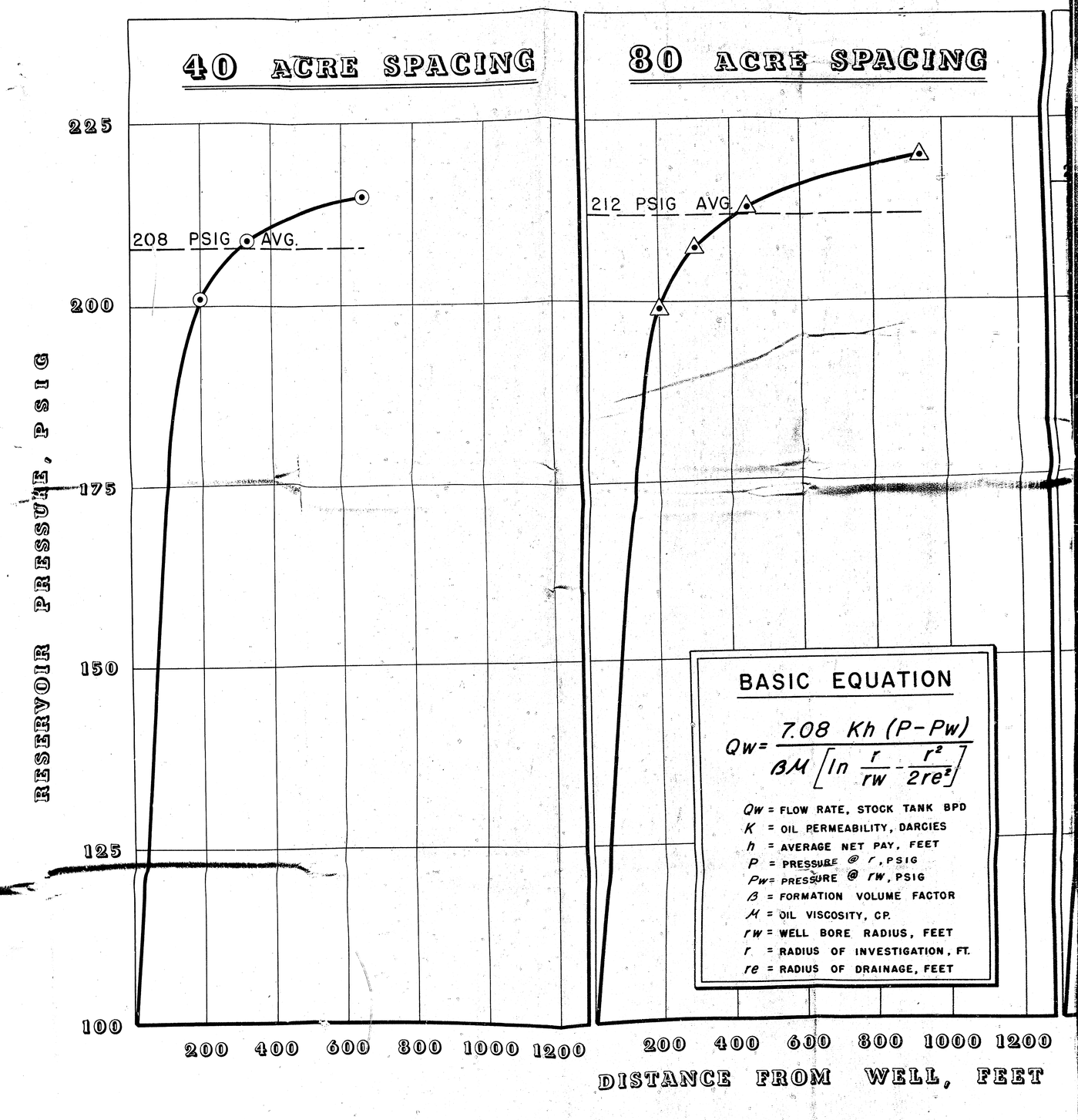
SAN JUAN COUNTY, NEW MEXICO



RESERVOIR PRESSURE AT A

CHA CHA GALLUP F

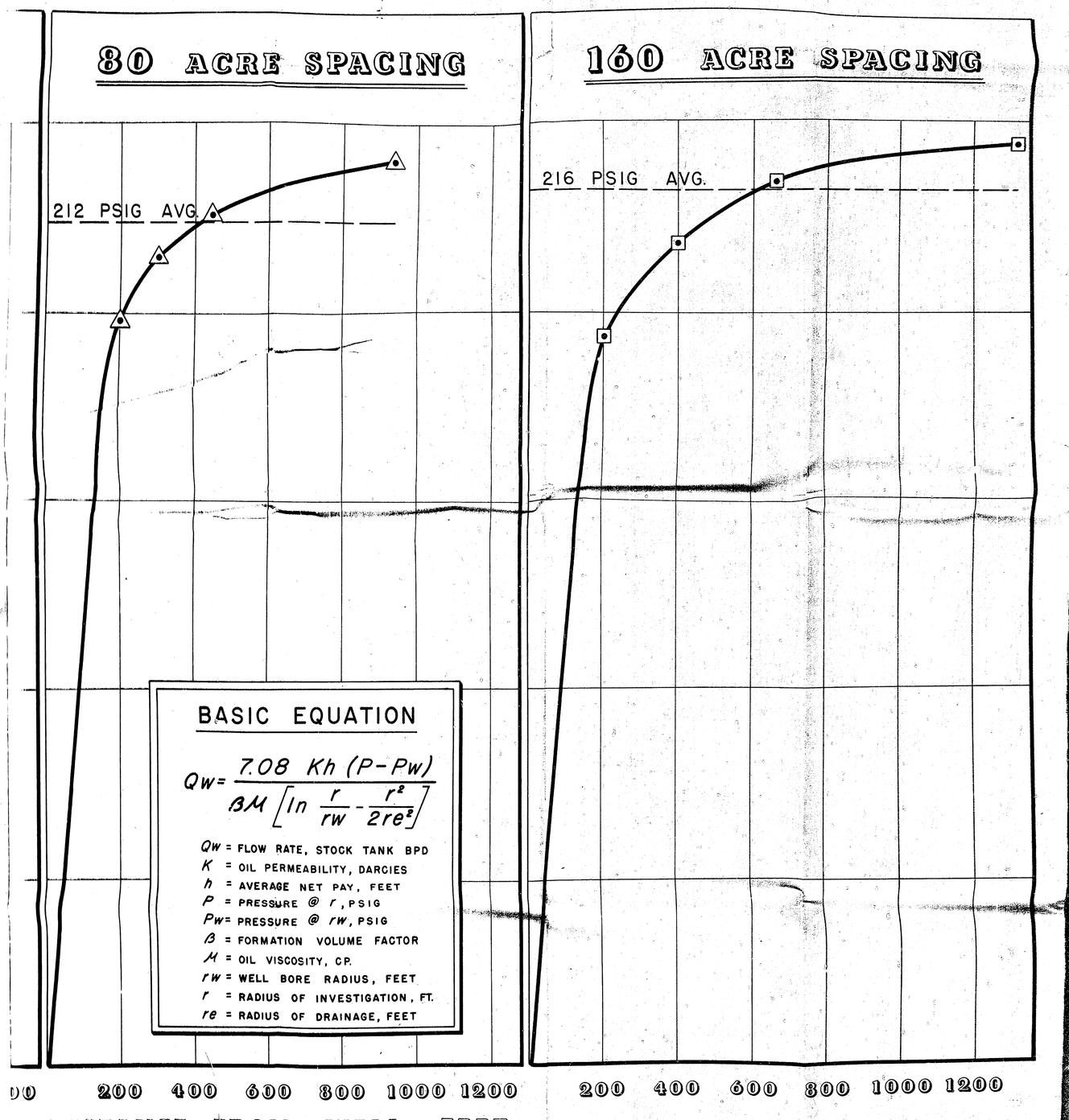
SAN JUAN COUNTY, NEW M



PRESSURE AT ABANDONMENT

HA CHA GALLUP FIELD

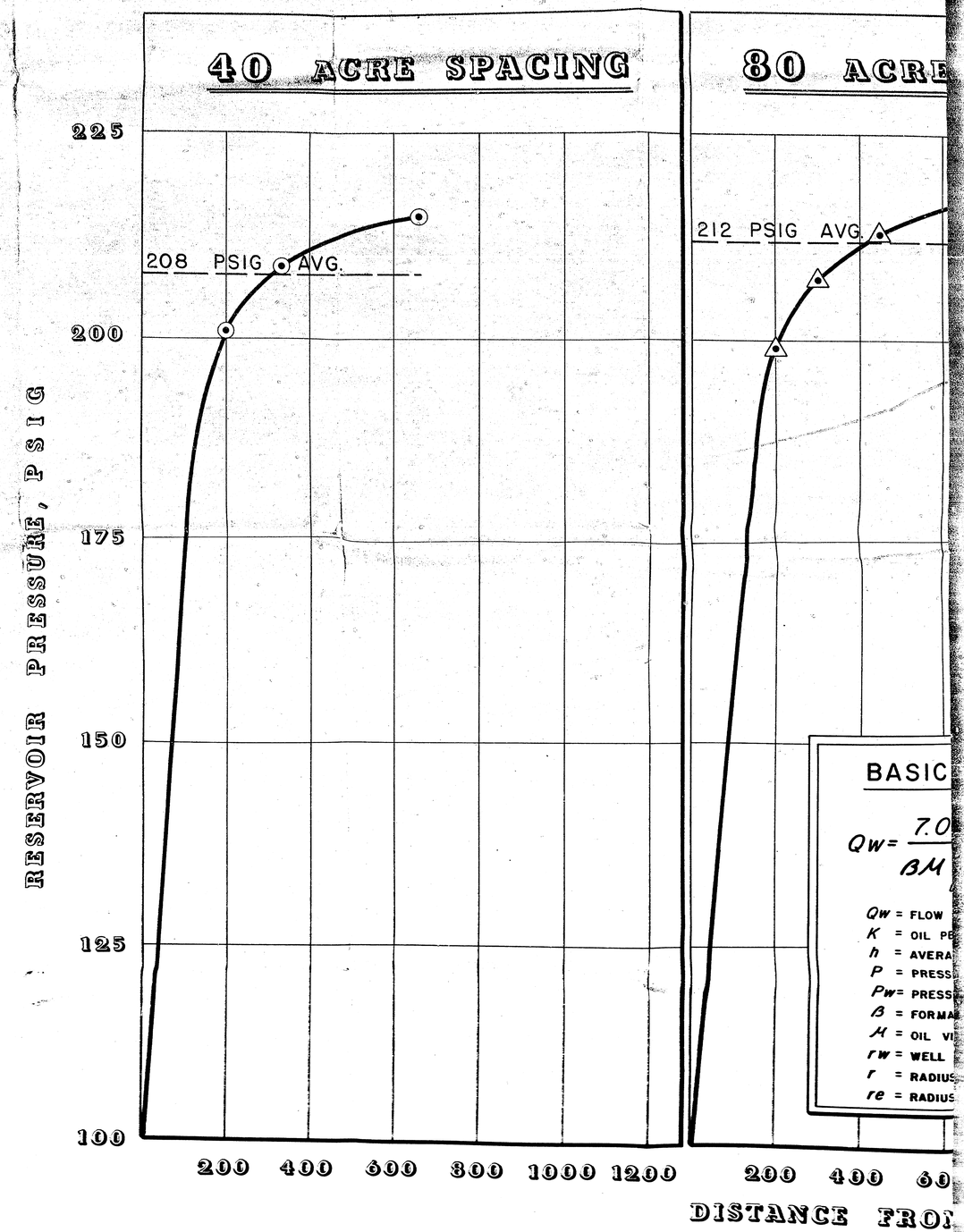
AN JUAN COUNTY, NEW MEXICO



RESERVOIR PRESSUR

CHA CHA

SAN JUAN COU



PRESSURE AT ABANDONMENT

HA CHA GALLUP FIELD

AN JUAN COUNTY, NEW MEXICO

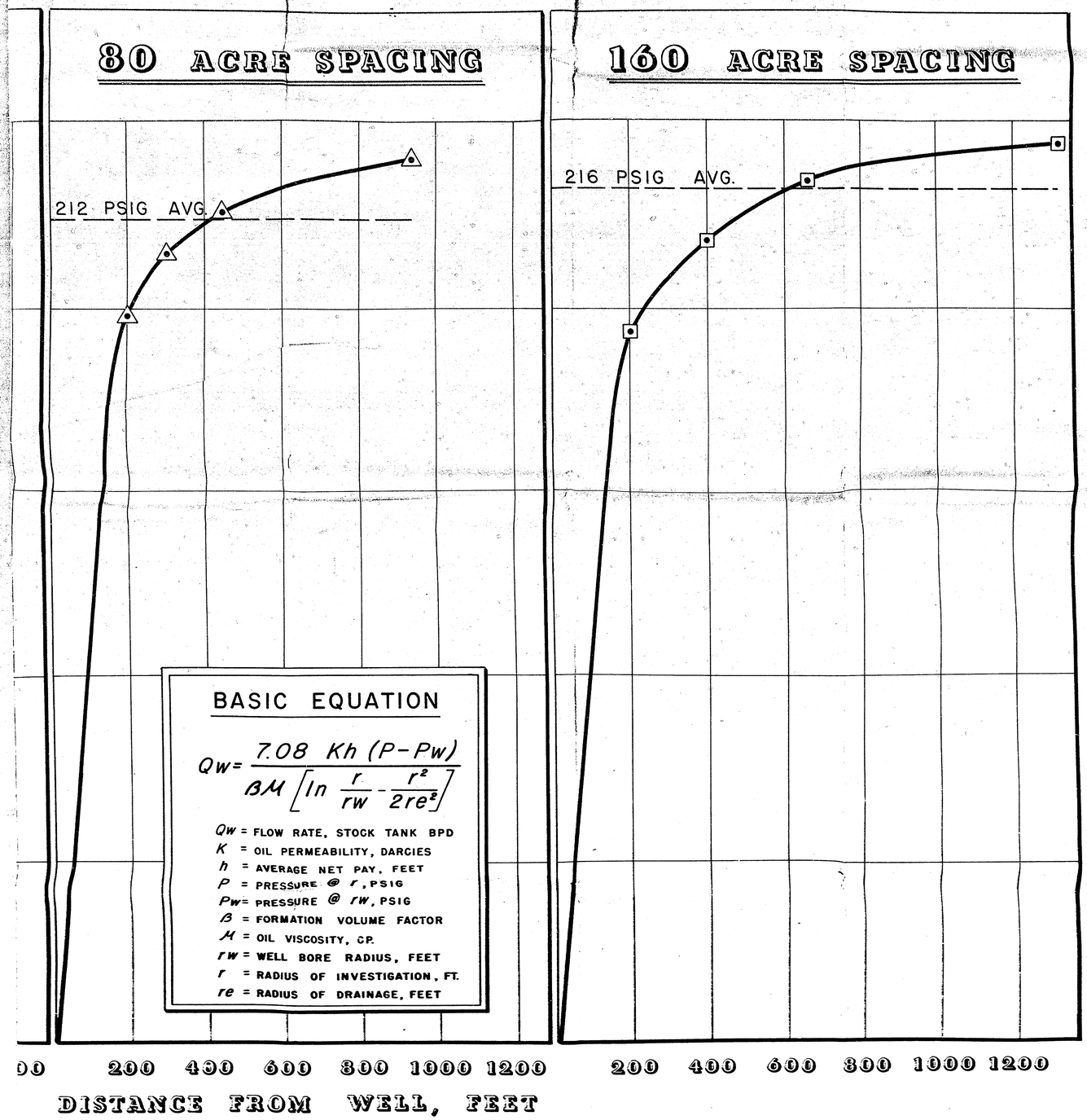


EXHIBIT No. 4

STRATIGRAPHIC CROSS-SECTION

SOUTH WATERFLOW – CHA CHA AREA

SAN JUAN COUNTY, NEW MEXICO

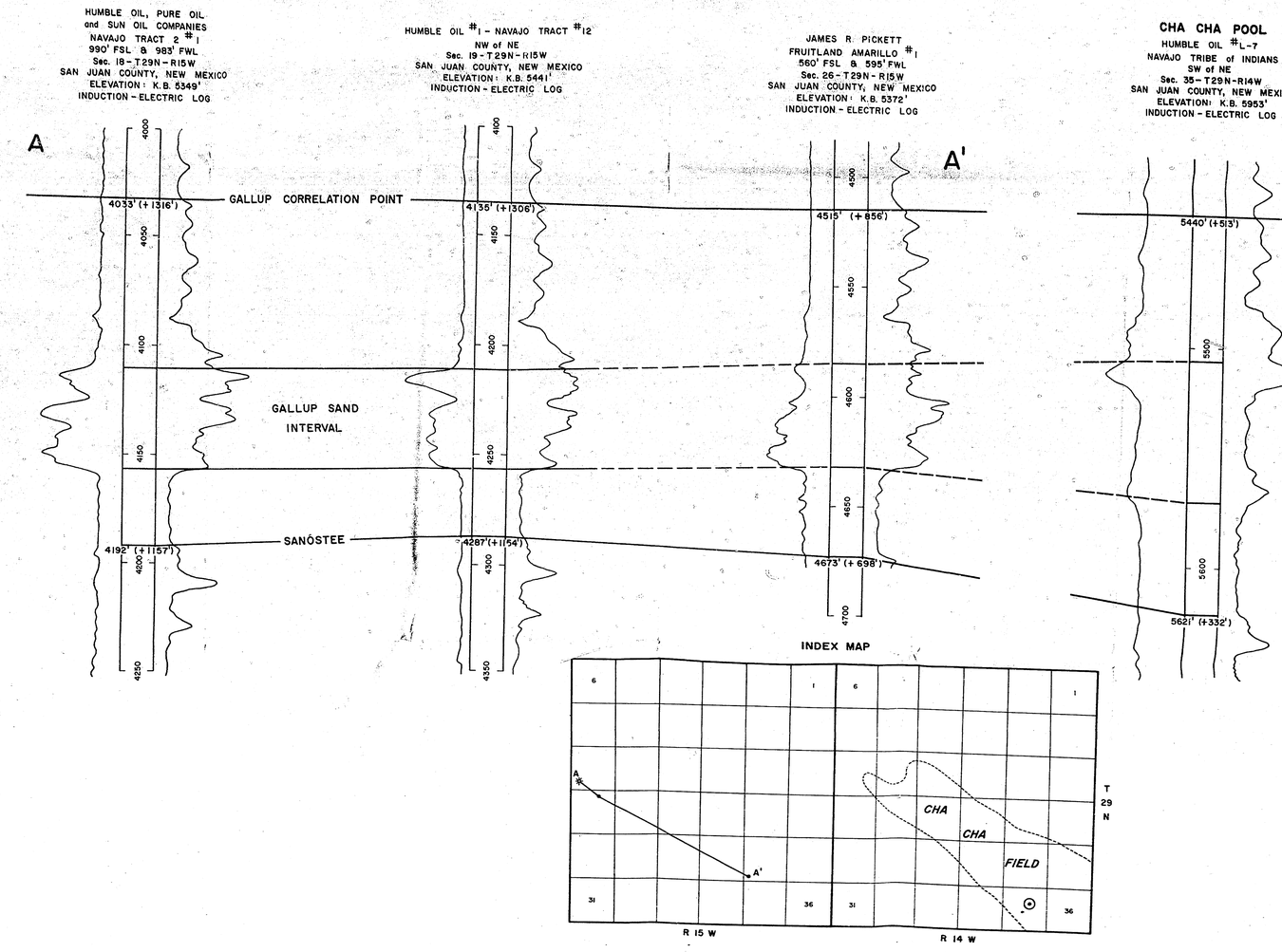


EXHIBIT No. 11

HUMBLE OIL & REFINING COMPANY

CHA CHA GALLUP FIELD

SAN JUAN COUNTY, NEW MEXICO

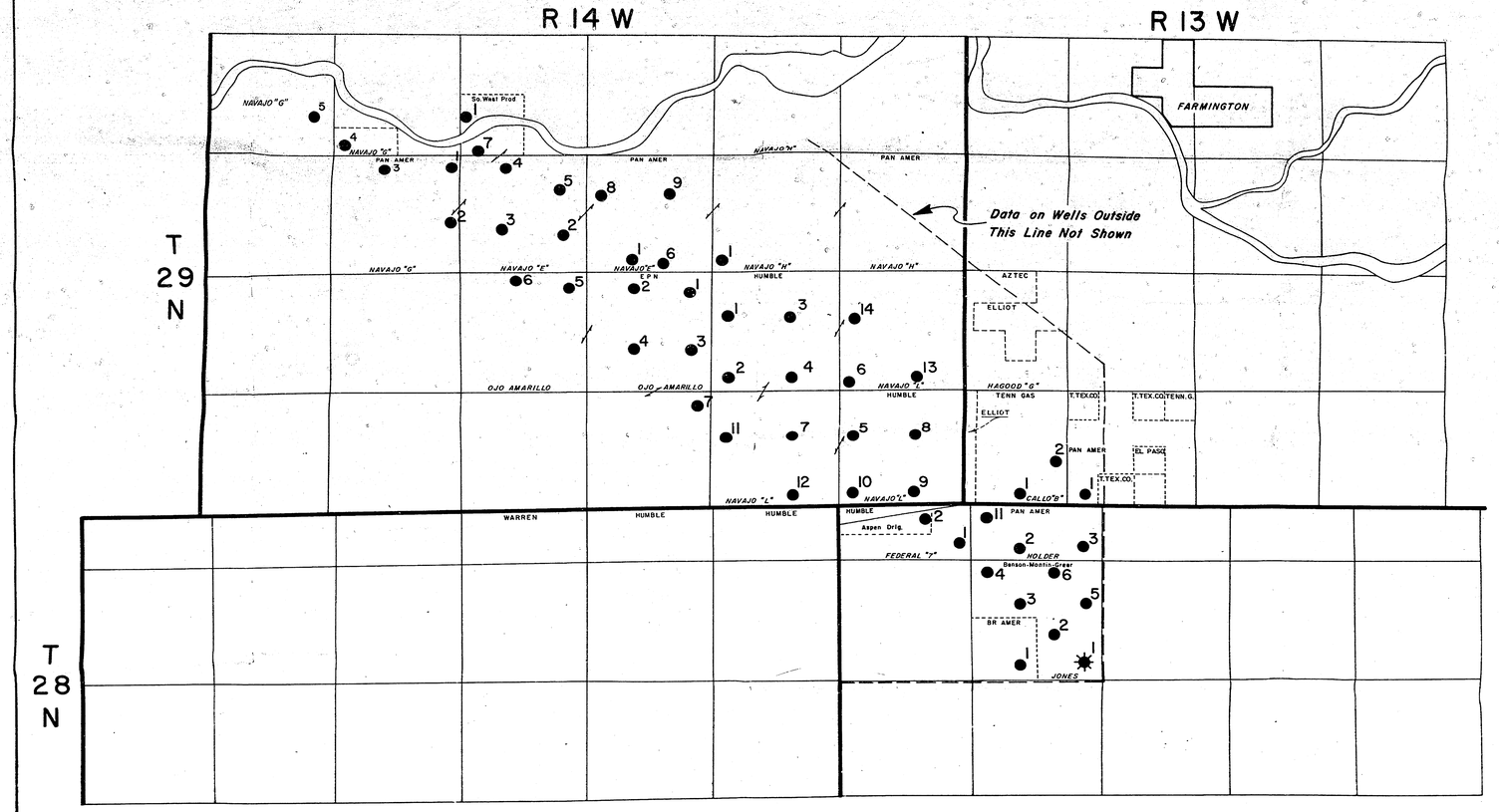


EXHIBIT Nº 2

HUMBLE OIL & REFINING COMPANY

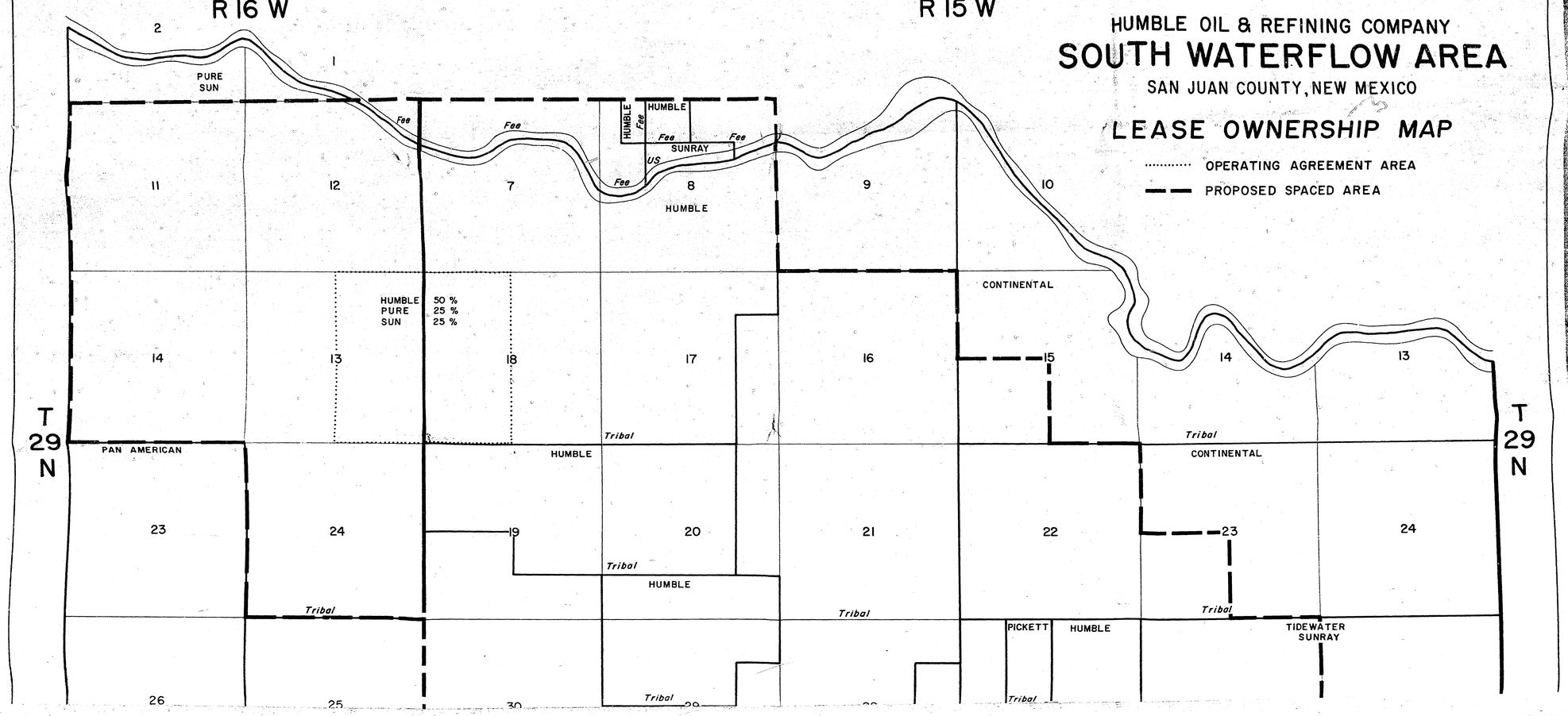
SOUTH WATERFLOW AREA

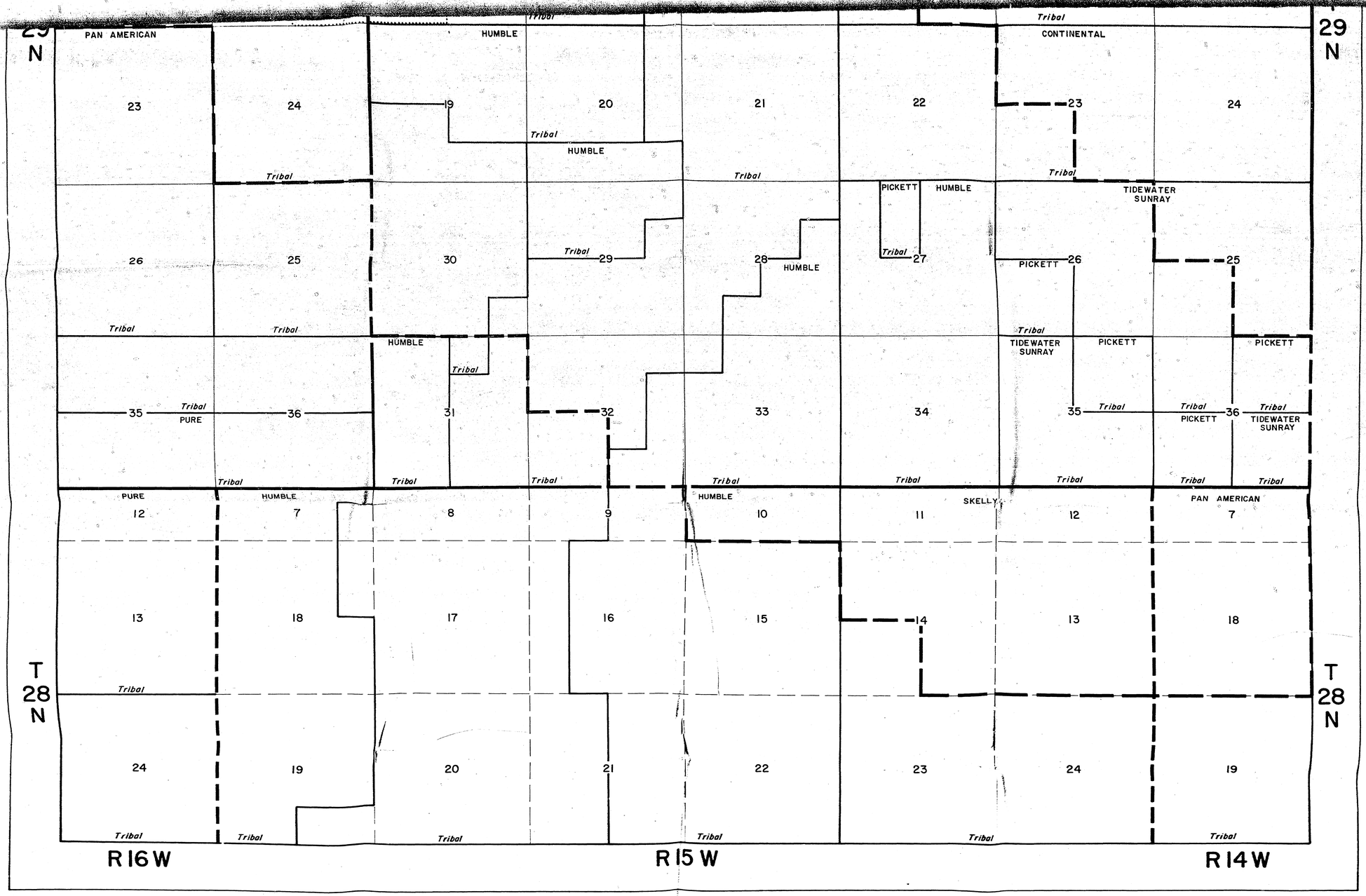
SAN JUAN COUNTY, NEW MEXICO

LEASE OWNERSHIP MAP

..... OPERATING AGREEMENT AREA

— — PROPOSED SPACED AREA




29 N
PAN AMERICAN
HUMBLE
CONTINENTAL
Tribal
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24
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23
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HUMBLE
PICKETT
HUMBLE
TIDEWATER SUNRAY
26
25
30
29
28
HUMBLE
27
PICKETT
26
25
TIDEWATER SUNRAY
PICKETT
PICKETT
35
36
PURE
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32
33
34
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PICKETT
36
TIDEWATER SUNRAY
PURE
HUMBLE
HUMBLE
SKELLY
PAN AMERICAN
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R 15 W
R 14 W

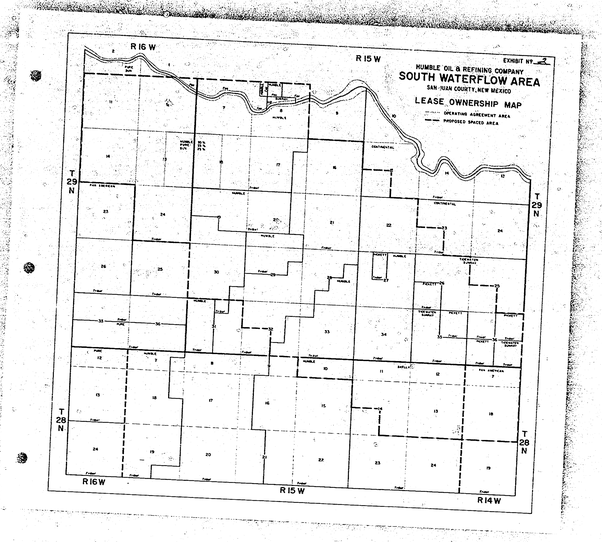


EXHIBIT NO. 2
HUMBLE OIL & REFINING COMPANY
SOUTH WATERFLOW AREA
SAN JUAN COUNTY, NEW MEXICO
LEASE OWNERSHIP MAP
OPERATING AGREEMENT AREA
PROPOSED SPACED AREA
R16W
R15W
R14W
T 29 N
T 28 N

EXHIBIT NO. 12

HUMBLE OIL & REFINING COMPANY

SOUTH WATERFLOW AREA

SAN JUAN COUNTY, NEW MEXICO

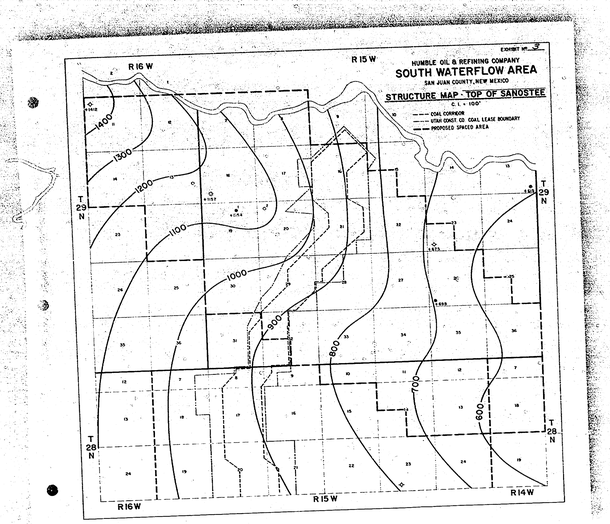
STRUCTURE MAP - TOP OF SANOSTEE

C. I. = 100'

— — — COAL CORRIDOR

— — — UTAH COAST CO. COAL LEASE BOUNDARY

— — — PROPOSED SPACED AREA



U.S.G.S. PHOTOGRAPHIC

EXHIBIT No. 4

STRATIGRAPHIC CROSS-SECTION
SOUTH WATERFLOW – CHA CHA AREA
SAN JUAN COUNTY, NEW MEXICO

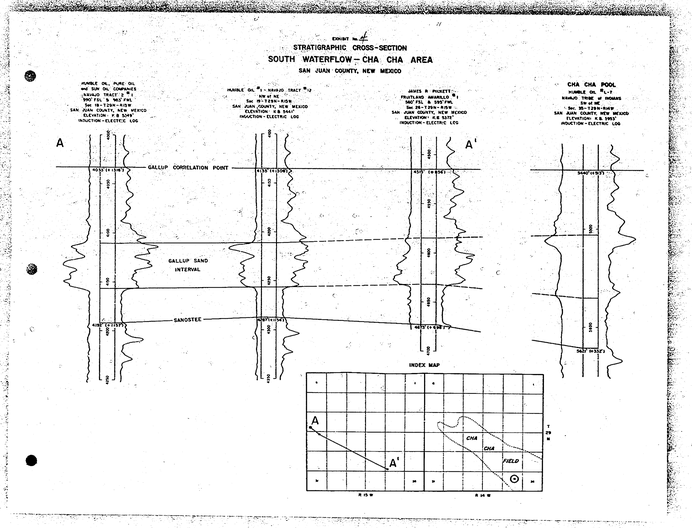
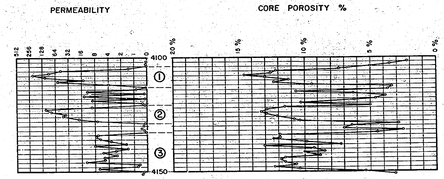


EXHIBIT No. 6

HUMBLE OIL & REFINING COMPANY
HUMBLE NAVAJO TRACT 2 No. 1
SW of SW
Sec. 18-T29N-R15W
SAN JUAN COUNTY, NEW MEXICO
ELEVATION: K.B. 5349'
CORE ANALYSIS
GALLUP SAND INTERVAL



	AVERAGE	
	PERM - Md	POROSITY - %
①	70.2	11.7
②	42.4	12.0
③	5.6	10.9
ALL ZONES	34.3	11.4

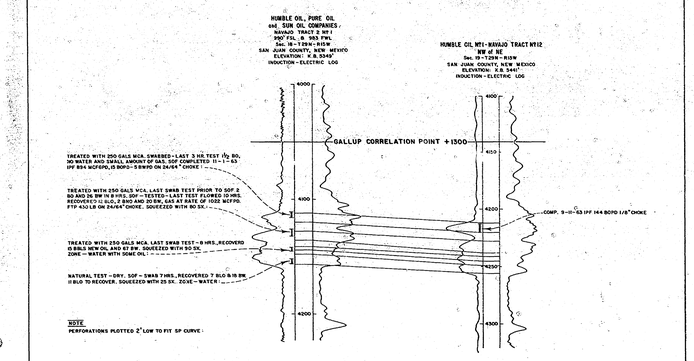
HUMBLE OIL & REFINING COMPANY

EXHIBIT NO. 7

STRUCTURAL CROSS-SECTION

SOUTH WATERFLOW AREA

SAN JUAN COUNTY, NEW MEXICO



NOTE
PERFORATIONS PLOTTED 2' LOW TO FIT SP CURVE.

HUMBLE OIL & REFINING COMPANY

EXHIBIT No. 11

CHA CHA GALLUP FIELD

SAN JUAN COUNTY, NEW MEXICO

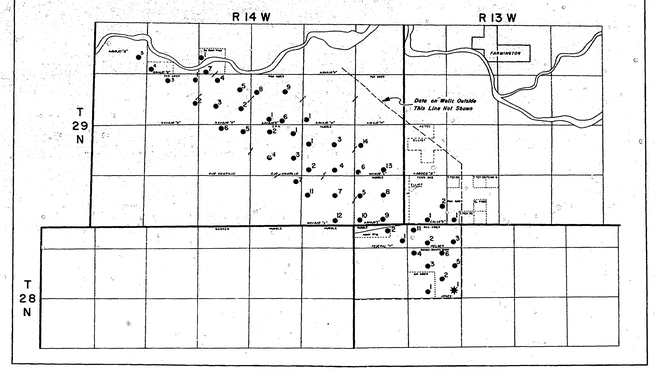


EXHIBIT NO. 12

HUMBLE OIL & REFINING COMPANY

SOUTH WATERFLOW AREA

SAN JUAN COUNTY, NEW MEXICO

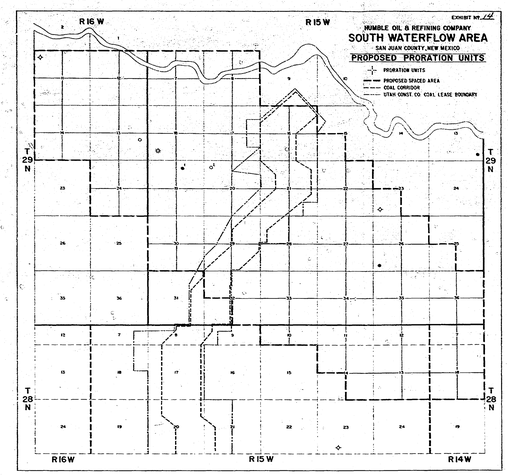
PROPOSED PRORATION UNITS

PRORATION UNITS

PROPOSED SPACED AREA

COAL CORRIDOR

UTAH CONST. CO. COAL LEASE BOUNDARY



U.S.G.S. PHOTOGRAPHICS

BEST AVAILABLE COPY

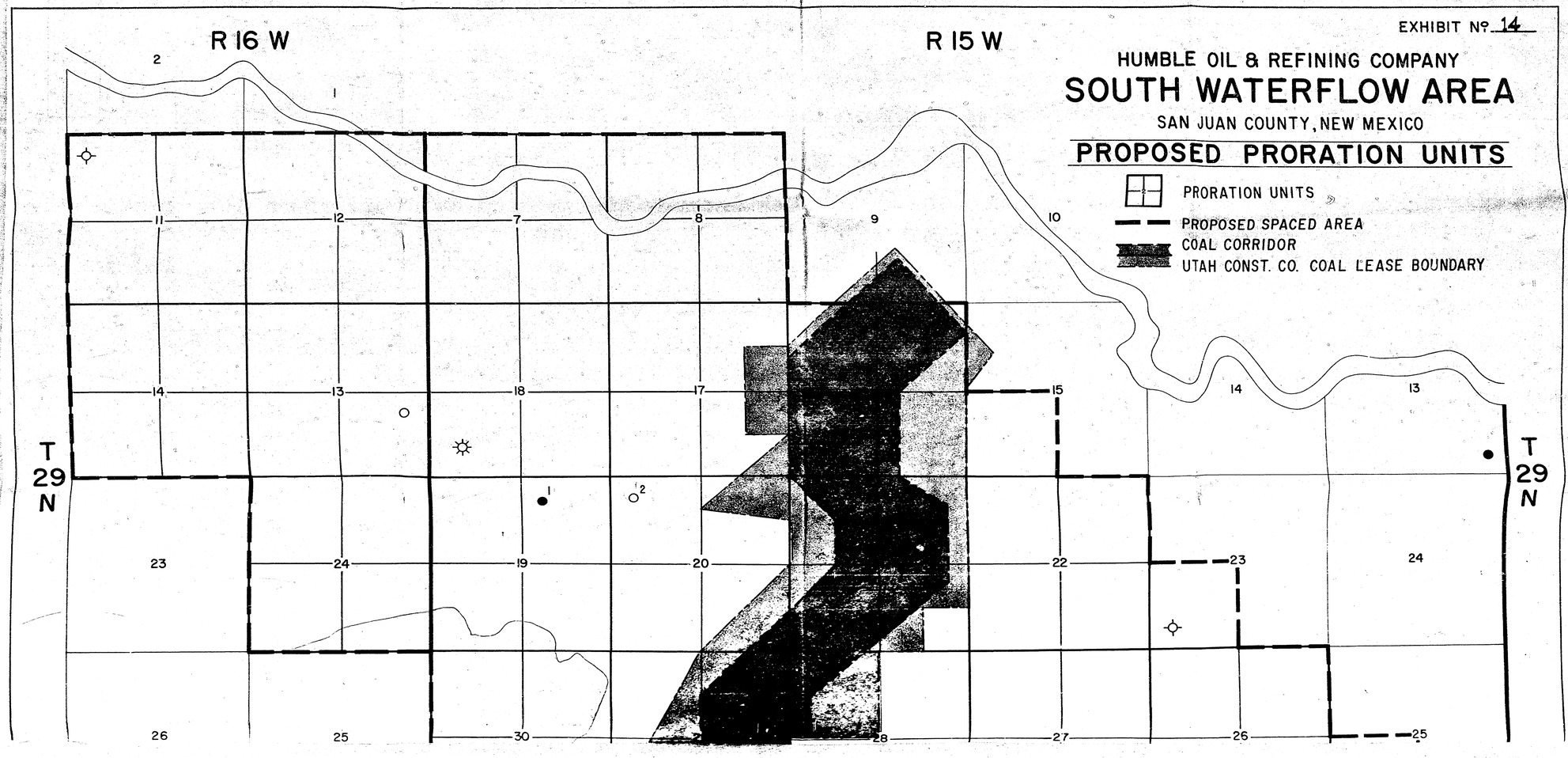
EXHIBIT Nº 14

HUMBLE OIL & REFINING COMPANY

SOUTH WATERFLOW AREA

SAN JUAN COUNTY, NEW MEXICO

PROPOSED PRORATION UNITS

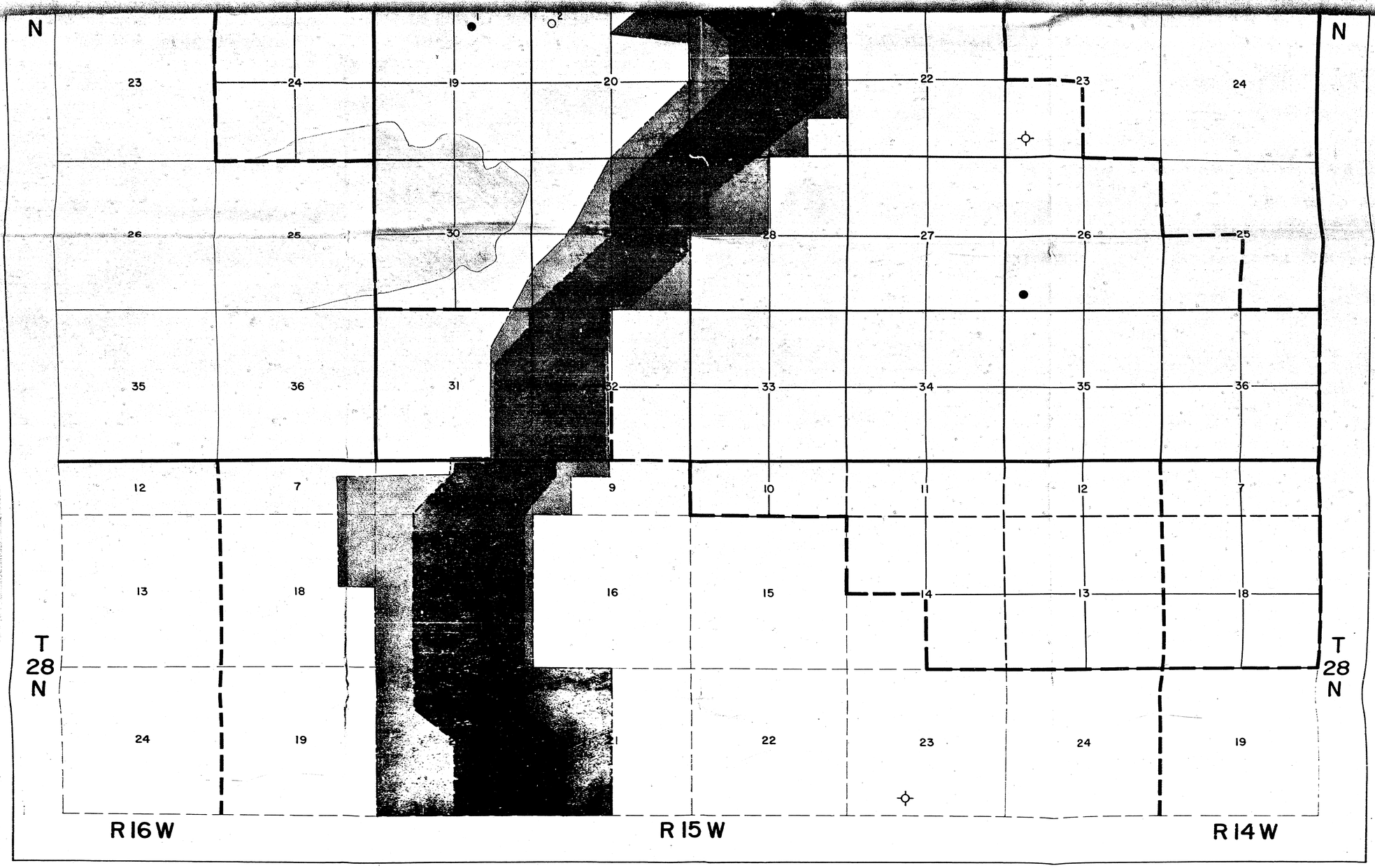


PRORATION UNITS

PROPOSED SPACED AREA

COAL CORRIDOR

UTAH CONST. CO. COAL LEASE BOUNDARY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R16W
R15W
R14W

PRESSURE INTERFE

NAVAJO "L"

CHA CHA GALL

SAN JUAN COUNTY, N

JUNE 16 - AUG. 4,

L-4
ΔP = 23 PSI

NAVAJO "L" NO. 4 STATIC BHP
PSIG -5400' (+523')

1350
1340
1330
1320
1310
1300

FLOWING BHP
PSIG (+523')

NAVAJO "L" NOS. 2,3,6,8,7

900
800
700
600
500
400

△2
△7
△6
△3 (est.)

AVG. MONTHLY
OIL PROD., BPD

NAVAJO "L" NOS. 2,3,6,8,7

700
600

707
656

15
JUNE

1

15
JUNE

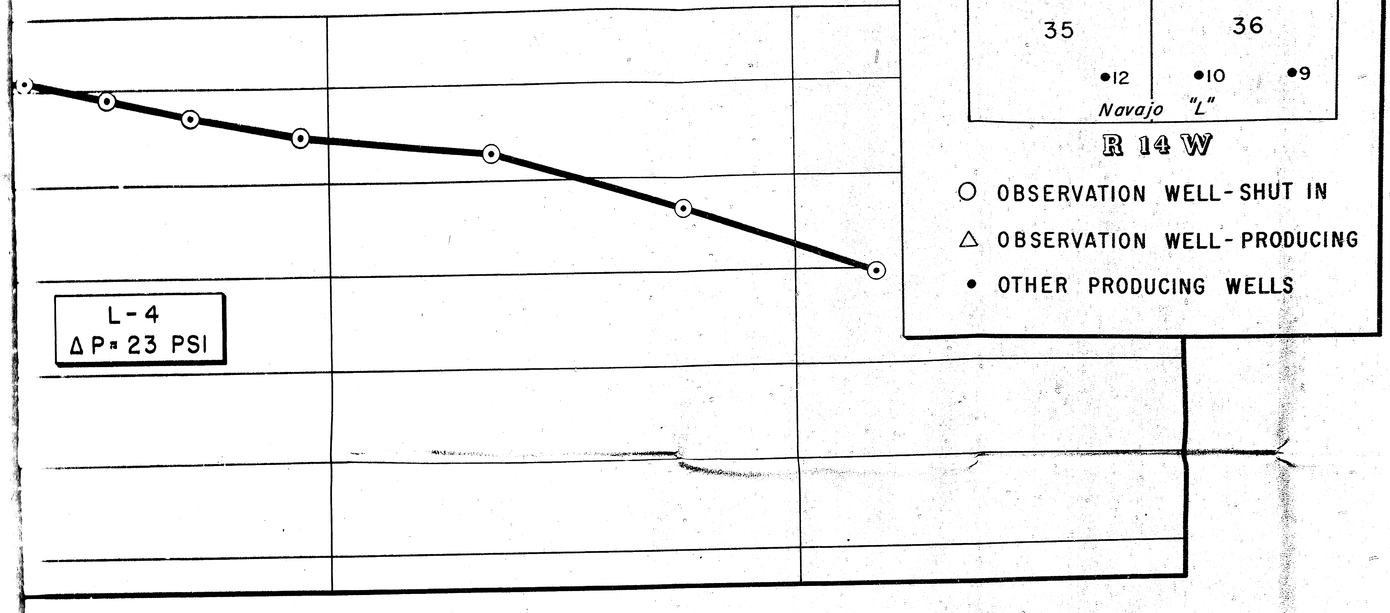
INTERFERENCE DATA

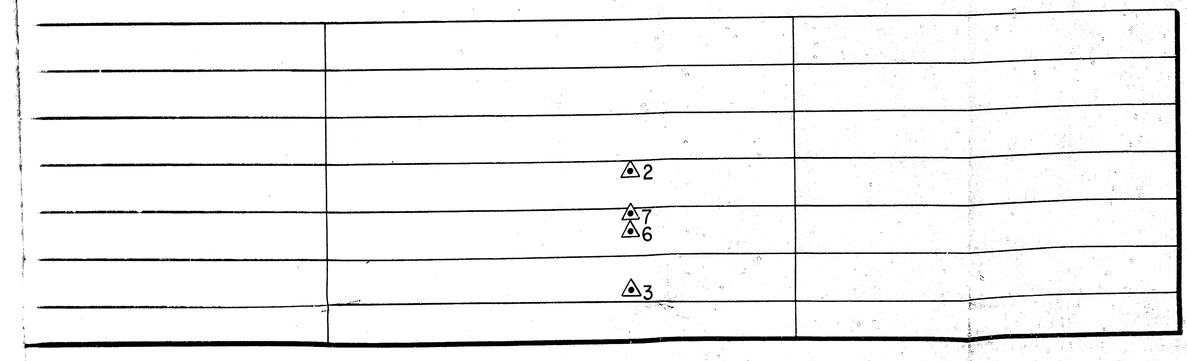
VAJO "L" LEASE

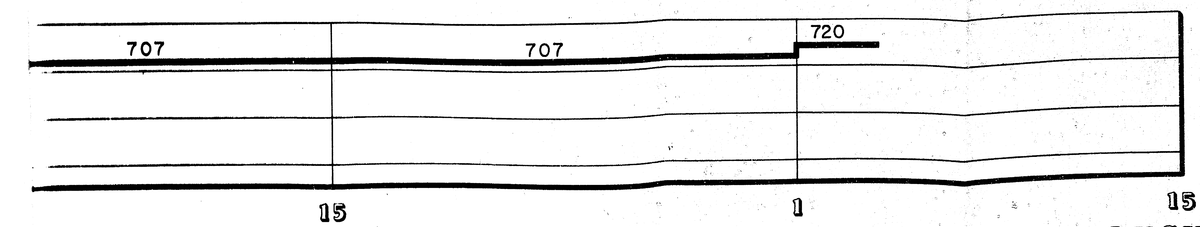
HA GALLUP FIELD

N COUNTY, NEW MEXICO

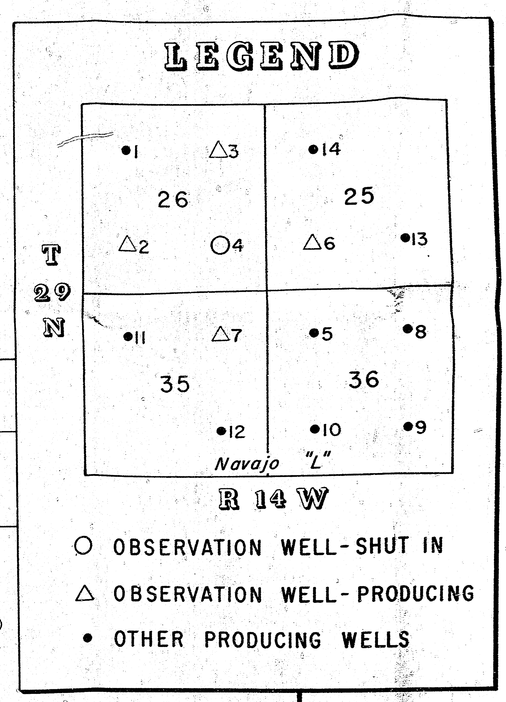
E 16 - AUG. 4, 1961



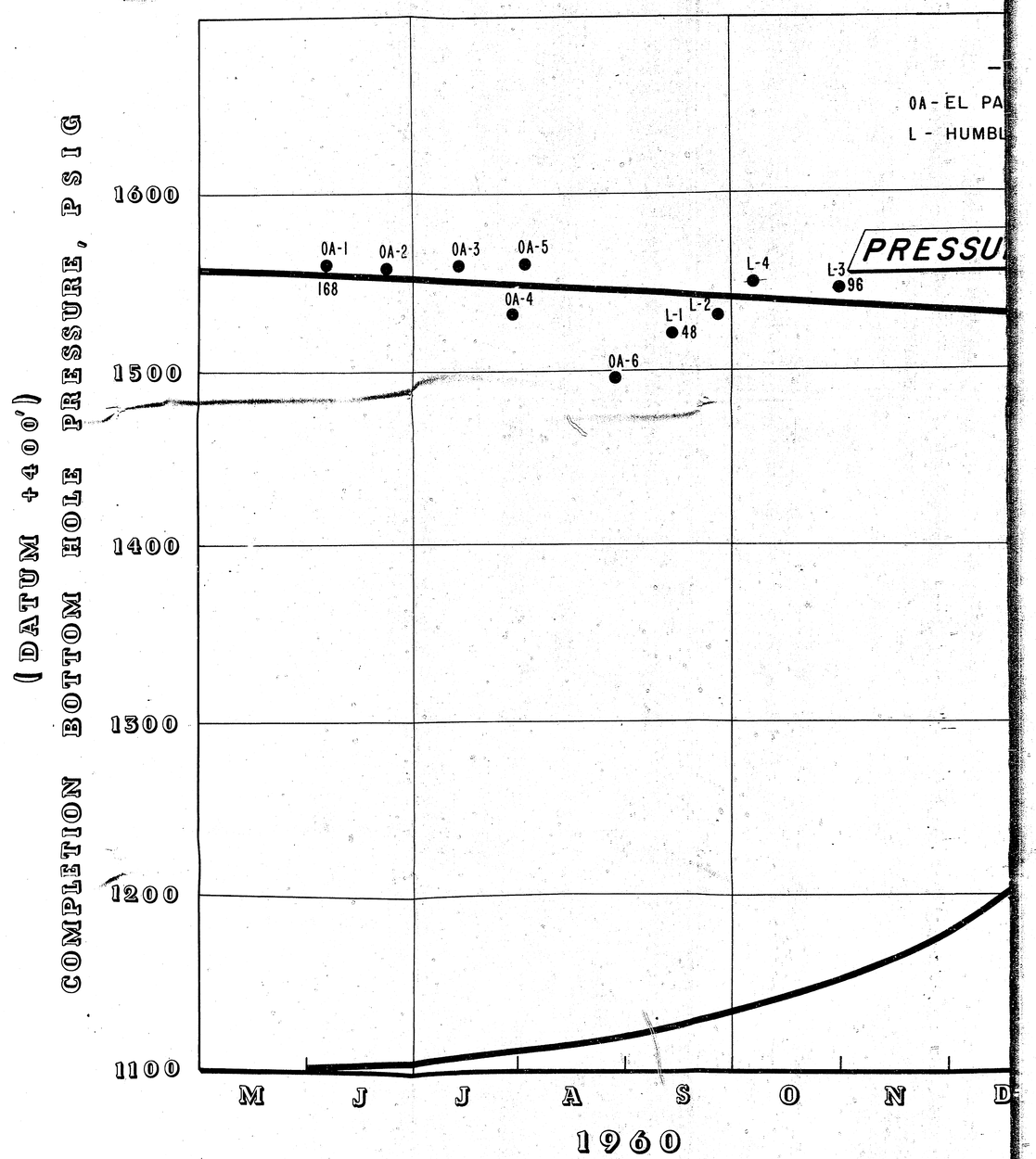




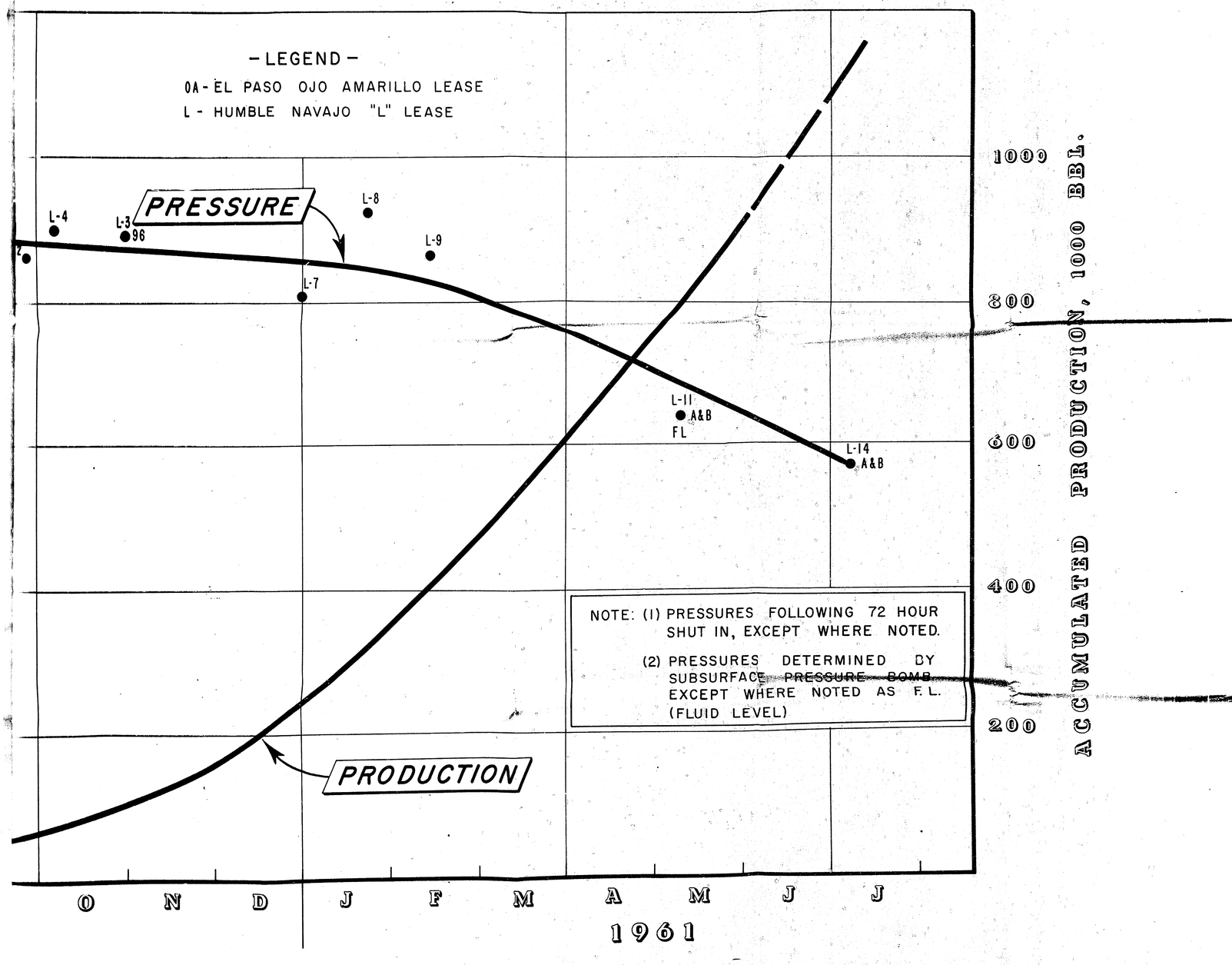
15 JULY 1 15 AUGUST

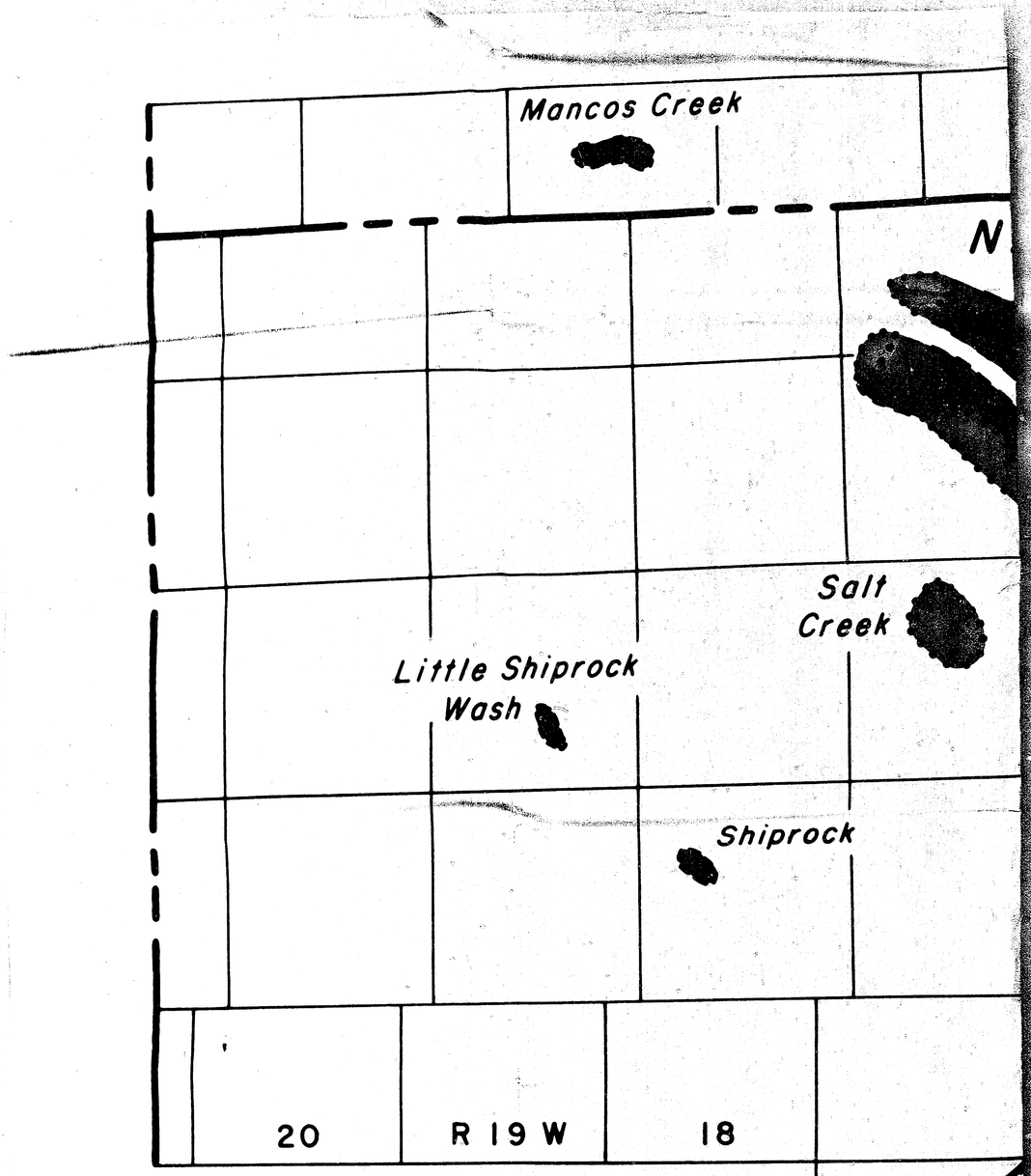


COMPLETION BOTTOM
ACCUMULATED OIL
CHA CHA
SAN JUAN COU



BOTTOM HOLE PRESSURES vs. TIME
ED OIL PRODUCTION vs. TIME
IA CHA GALLUP FIELD
N JUAN COUNTY, NEW MEXICO



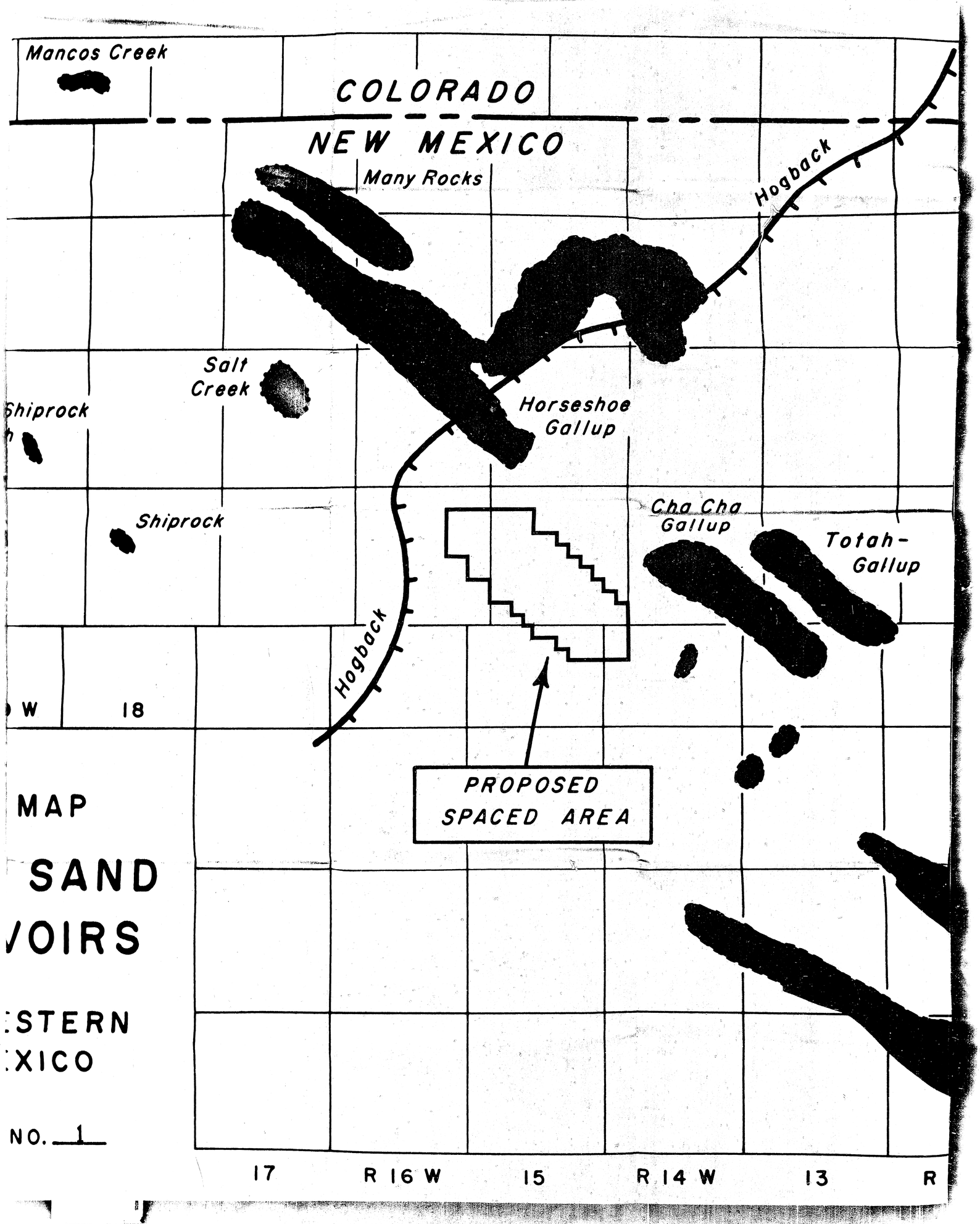


INDEX MAP

GALLUP SAND RESERVOIRS

NORTH WESTERN NEW MEXICO

EXHIBIT NO. 1



MAP

SAND

VOIRS

STERN

XICO

NO. 1

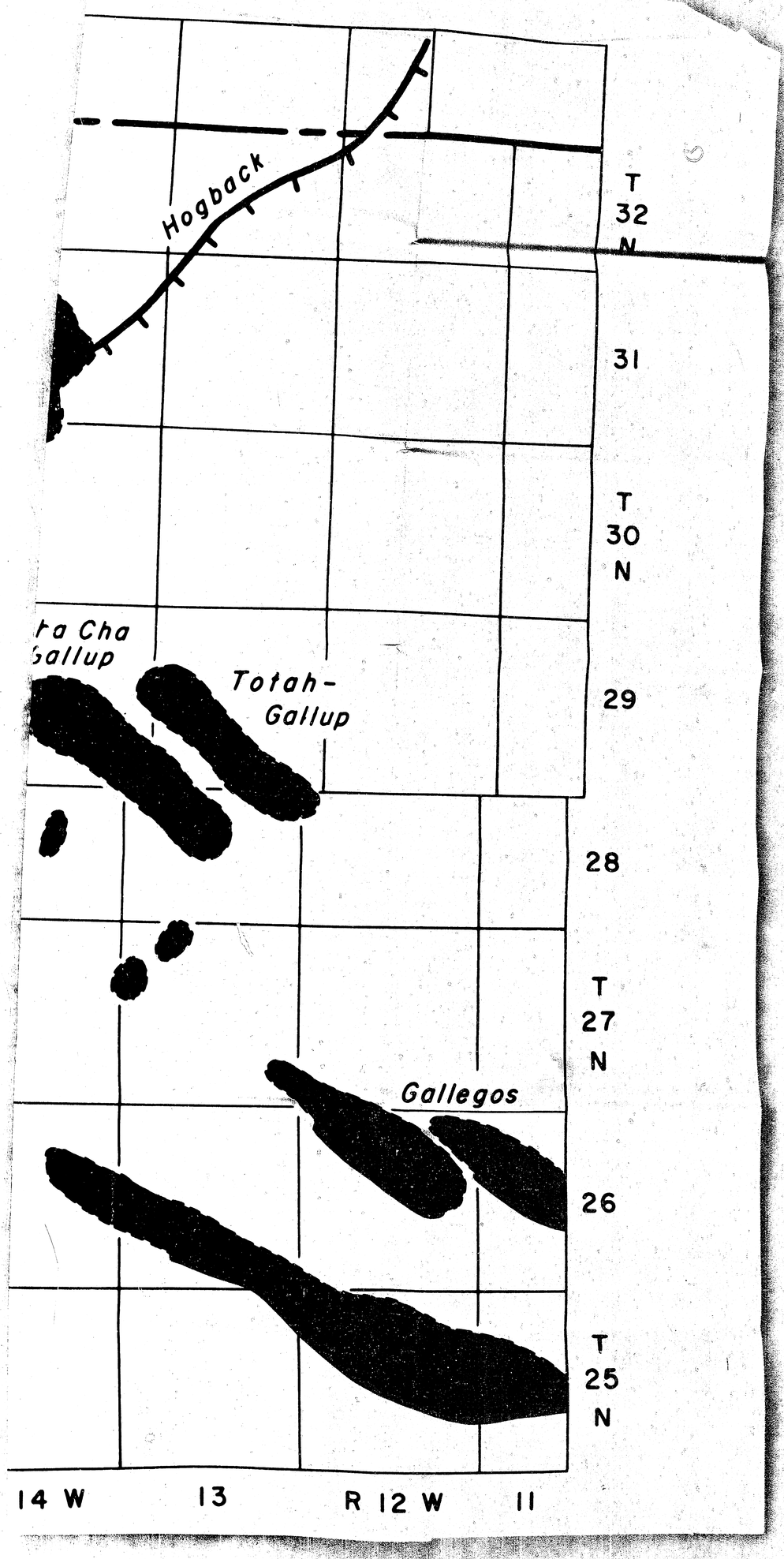

Hogback
T 32 N
31
T 30 N
ra Cha
Gallup
Totah-
Gallup
29
28
T 27 N
Gallegos
26
T 25 N
14 W
13
R 12 W
11

EXHIBIT Nº 3

HUMBLE OIL & REFINING COMPANY

SOUTH WATERFLOW AREA

SAN JUAN COUNTY, NEW MEXICO

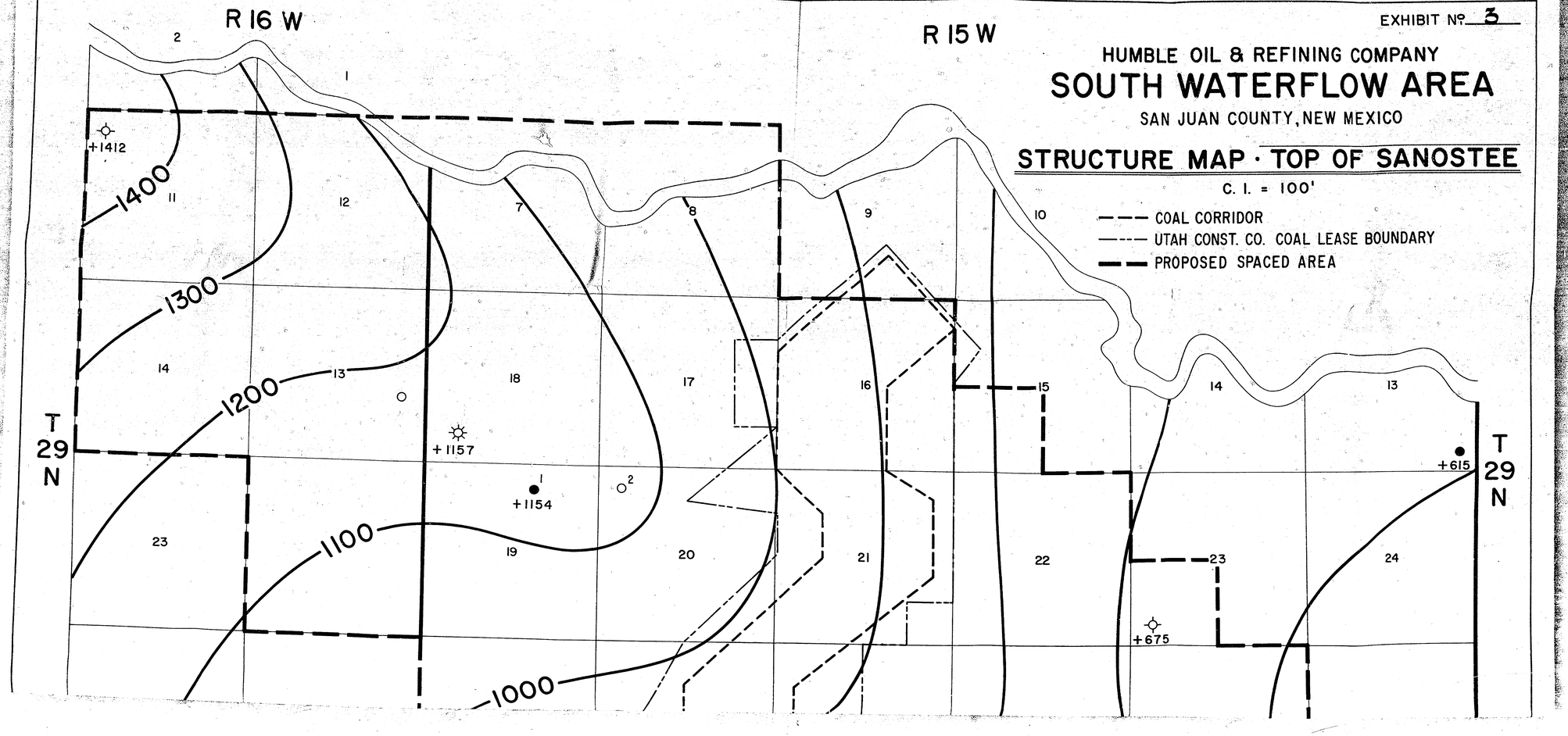
STRUCTURE MAP · TOP OF SANOSTEE

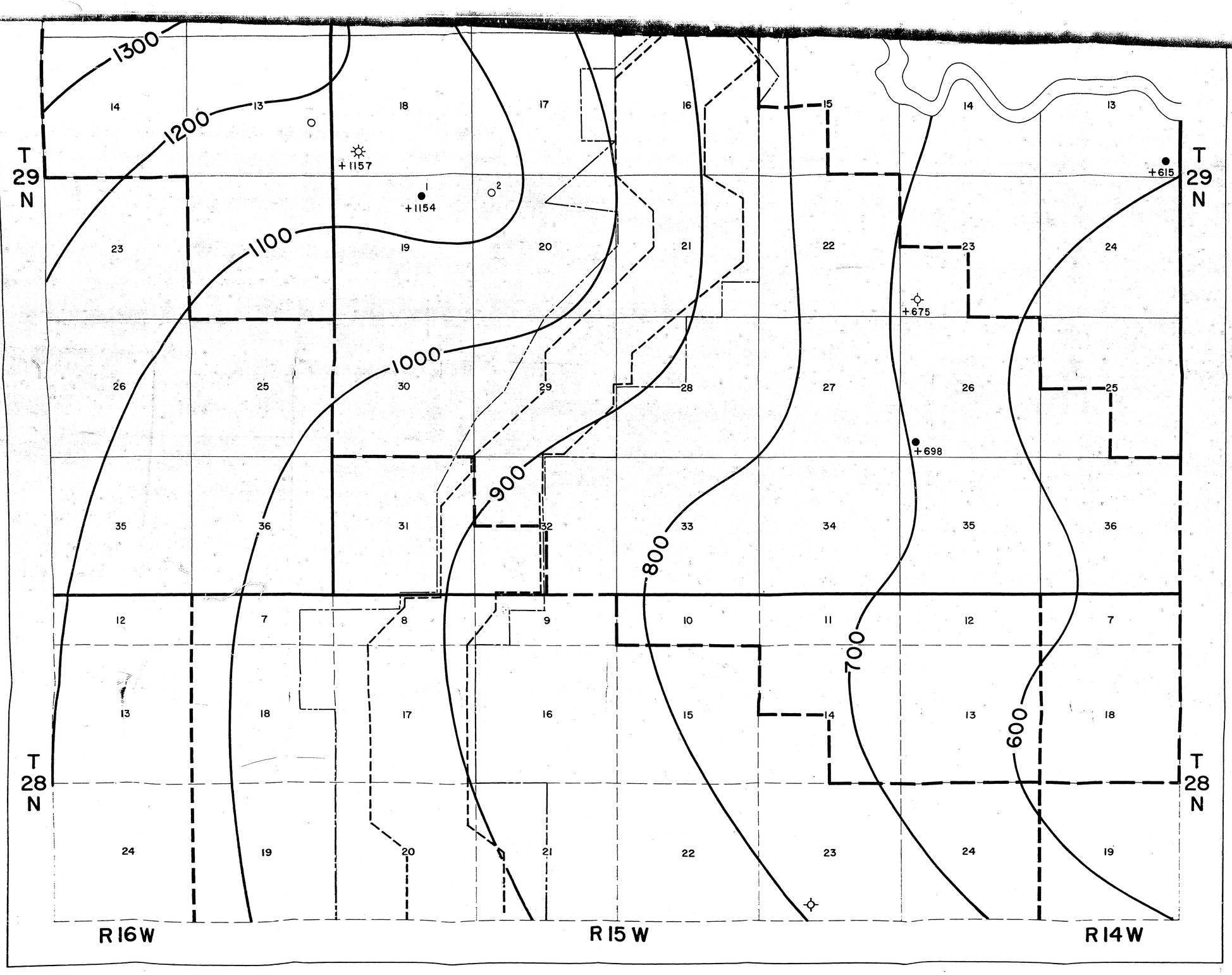
C. I. = 100'

— — — COAL CORRIDOR

—·—·— UTAH CONST. CO. COAL LEASE BOUNDARY

▬▬ PROPOSED SPACED AREA




1300
1200
1100
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700
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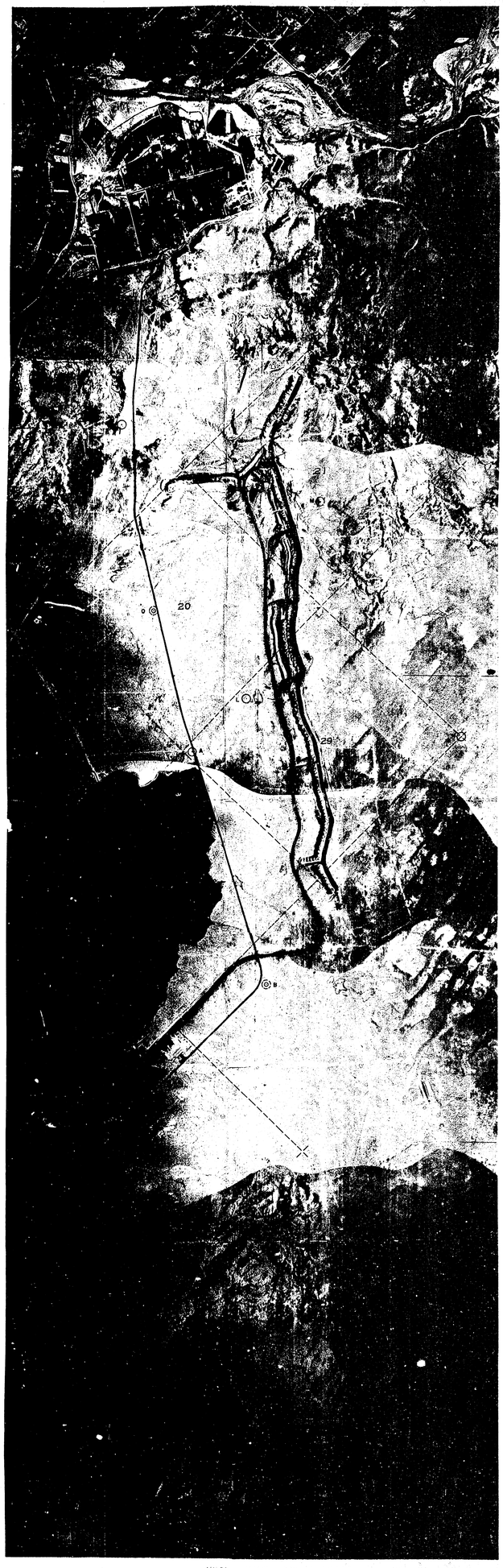
+1157
+1154
+615
+675
+698
T 29 N
T 28 N
R16W
R15W
R14W



SOUTH WATERFLOW AREA

San Juan Co., New Mexico

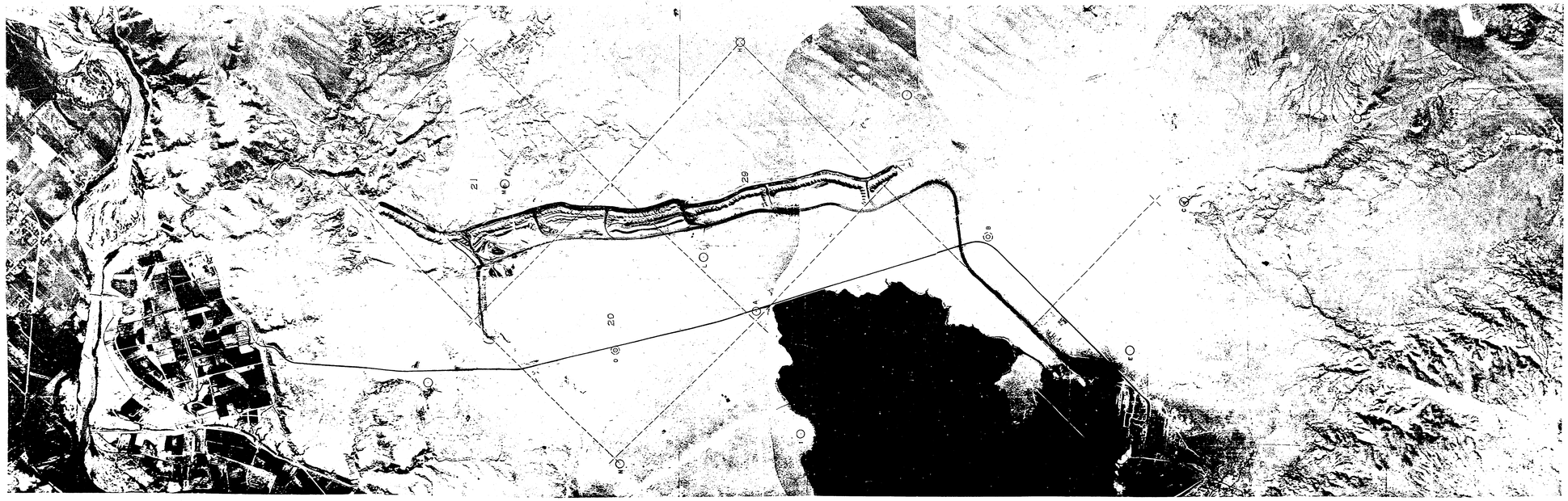

21
29
20

EXHIBIT NO. 1
HUMBLE OIL & REFINING COMPANY
SOUTH WATERFLOW AREA
SAN JUAN COUNTY, NEW MEXICO
LEASE OWNERSHIP MAP
OPERATING AGREEMENT AREA
SPACED AREA, UNDER NM R-2512
CUMULATIVE OIL TO 12-1-54, Bbls.
GAS TO 9/1/57, MCF, 15.01 = 1 Bbl. Oil
R16W
R15W
R14W
T 29 N
T 28 N

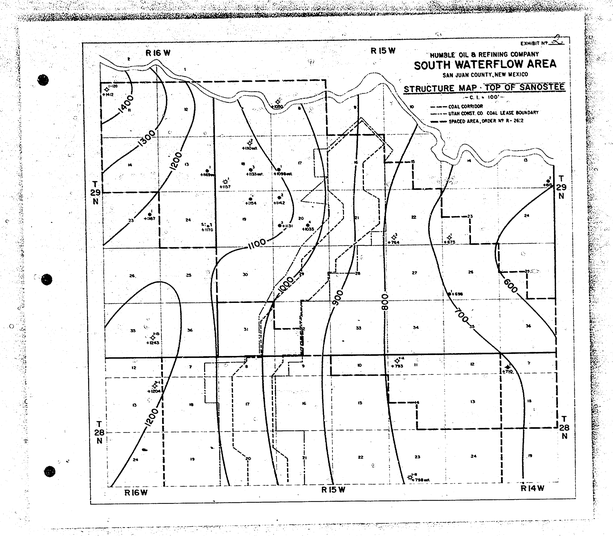


EXHIBIT NO.
HUMBLE OIL & REFINING COMPANY
SOUTH WATERFLOW AREA
SAN JUAN COUNTY, NEW MEXICO
STRUCTURE MAP - TOP OF SANOSTEE
- C. I. = 100' -
COAL CORRIDOR
UTAH COMET. CO. COAL LEASE BOUNDARY
SPACED AREA, ORDER NO R-
R16W
R15W
R14W
T 29 N
T 28 N
1400
1500
1200
1100
1000
900
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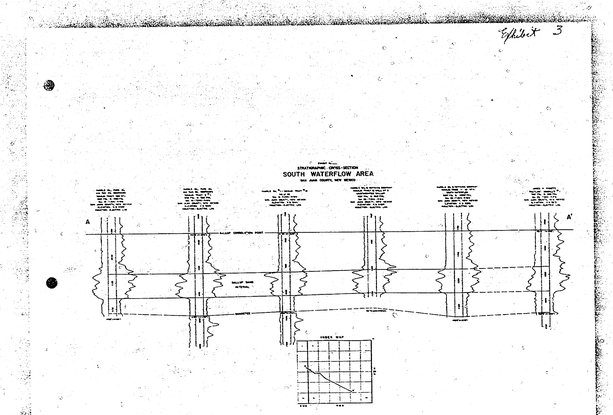
600
1800

Exhibit 3



U.S.G.S. PHOTOGRAPHIC
BEST AVAILABLE COPY

EXHIBIT NO. 2

HUMBLE OIL & REFINING COMPANY

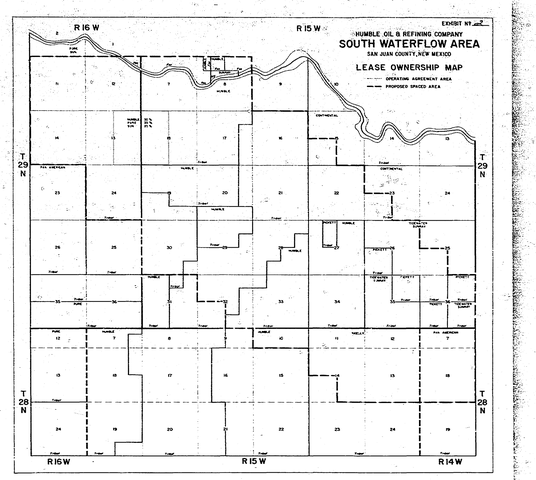
SOUTH WATERFLOW AREA

SAN JUAN COUNTY, NEW MEXICO

LEASE OWNERSHIP MAP

OPERATING AGREEMENT AREA

PROPOSED SPACED AREA



U.S.G.S. WASHINGTON

BEST AVAILABLE COPY

EXHIBIT NO. 2
R 16 W
R 15 W
HUMBLE OIL & REFINING COMPANY
SOUTH WATERFLOW AREA
SAN JUAN COUNTY, NEW MEXICO
STRUCTURE MAP - TOP OF SANOSTEE
C.I. = 100'
COAL CORRIDOR
UTAH-CONST. CO. COAL LEASE BOUNDARY
PROPOSED SPACED AREA
1400
1300
1200
1100
1000
900
800
700
600
T 29 N
T 28 N
R16W
R15W
R14W

EXHIBIT No. 4

STRATIGRAPHIC CROSS-SECTION
SOUTH WATERFLOW – CHA CHA AREA
SAN JUAN COUNTY, NEW MEXICO

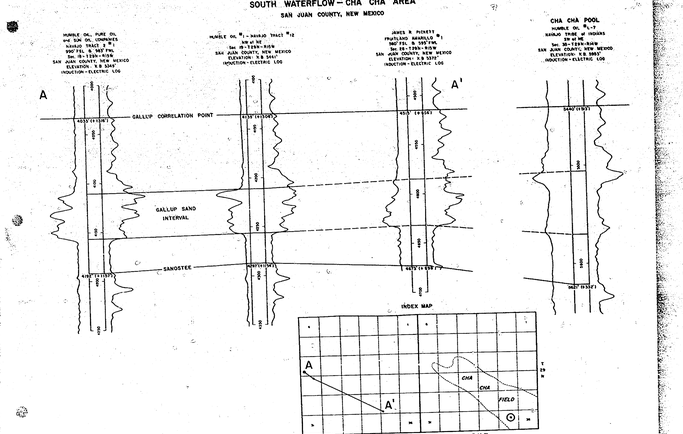
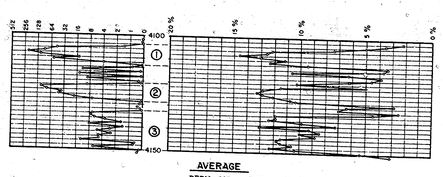


EXHIBIT No. 6

HUMBLE OIL & REFINING COMPANY
HUMBLE NAVAJO TRACT 2 No. 1
SW of SW
Sec. 18 - T29N - R15W
SAN JUAN COUNTY, NEW MEXICO
ELEVATION: K.B. 5349'
CORE ANALYSIS
GALLUP SAND INTERVAL



	AVERAGE	
	PERM - Md	POROSITY - %
①	70.2	11.7
②	42.4	12.0
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ALL ZONES	34.3	11.4

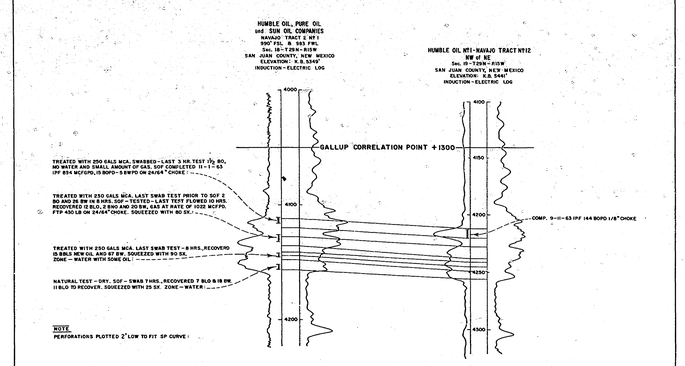
HUMBLE OIL & REFINING COMPANY

EXHIBIT NO. 7

STRUCTURAL CROSS-SECTION

SOUTH WATERFLOW AREA

SAN JUAN COUNTY, NEW MEXICO



U.S.G.S. TOPOGRAPHIC

HUMBLE OIL & REFINING COMPANY

EXHIBIT No. 11

CHA CHA GALLUP FIELD

SAN JUAN COUNTY, NEW MEXICO

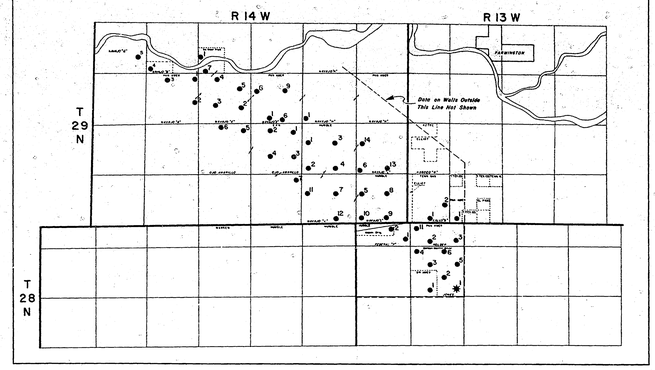


EXHIBIT NO. 1-C

HUMBLE OIL & REFINING COMPANY

SOUTH WATERFLOW AREA

SAN JUAN COUNTY, NEW MEXICO

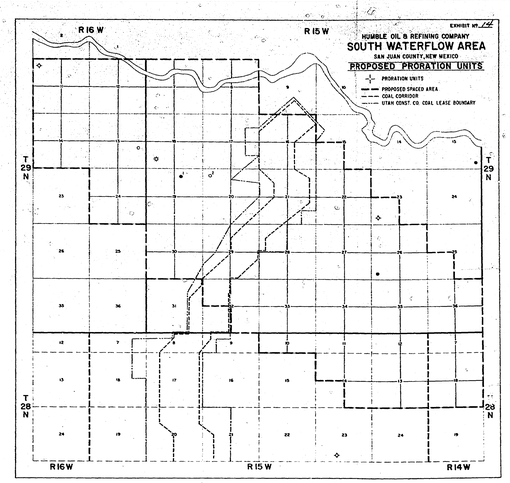
PROPOSED PRORATION UNITS

PRORATION UNITS

PROPOSED SPACED AREA

COAL CORRIDOR

UTAH CONST. CO. COAL LEASE BOUNDARY



U.S.G.S. PHOTOGRAPHIC