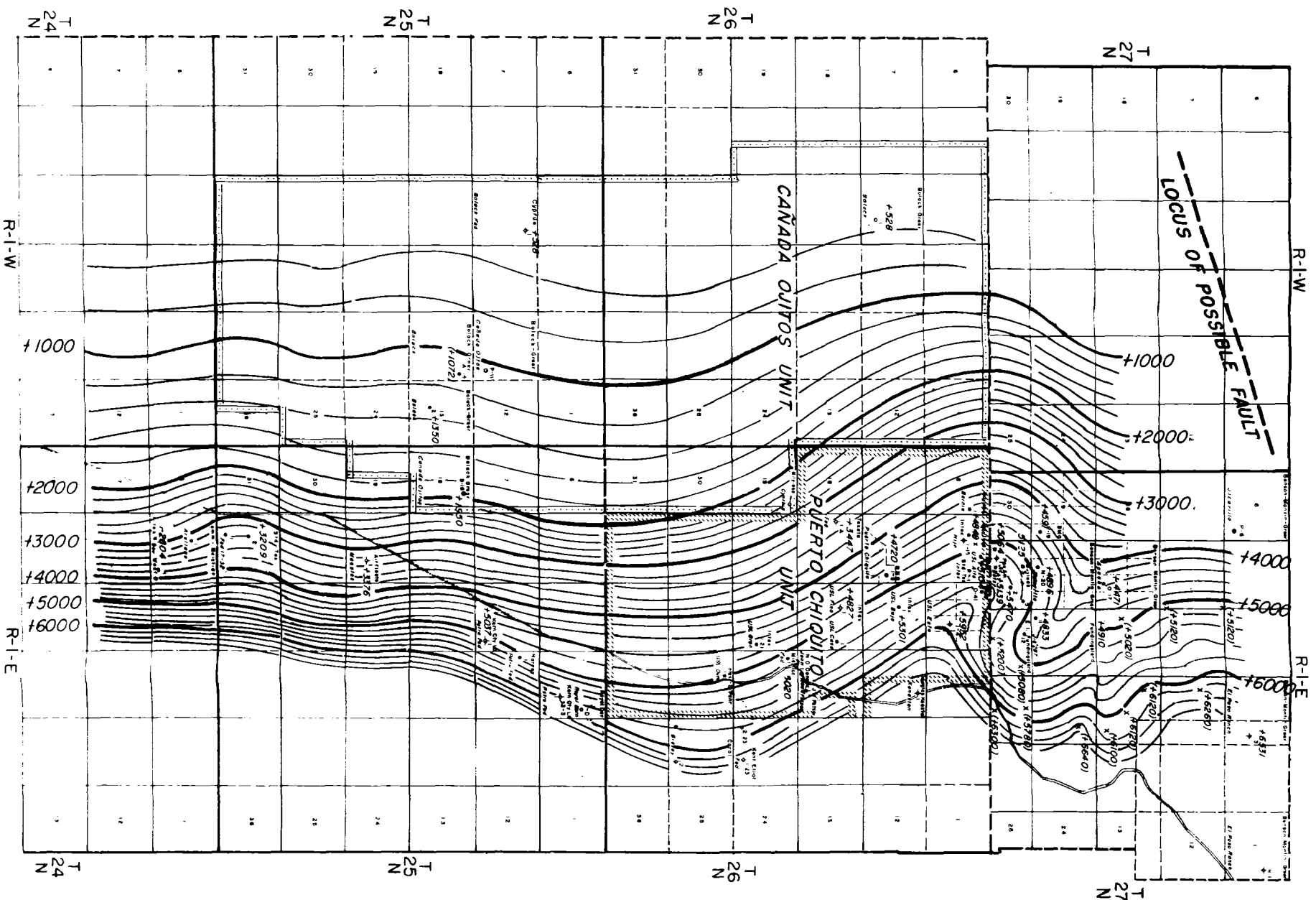




BENSON-MONTIN-GREER DRLG CORP.
FARMINGTON, NEW MEXICO

CONTOUR TOP ZONE "A"

NIORARA MEMBER-MANCOS FORMATION

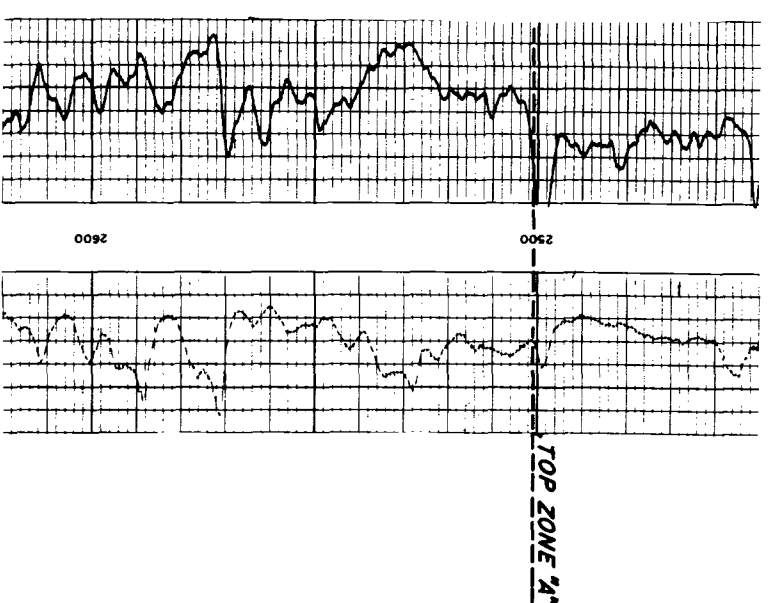
PUERTO CHIQUITO AREA

RIO ARRIBA COUNTY - NEW MEXICO

Scale 1 Mile Date: August 1, 1963

LEGEND

BENSON-MONTIN-GREER DRLG CORP.
#0-17 JICARILLA APACHE
660' FSL and 1980' FEL
SEC. 17-27N-1E



(+5200) DATUM BASED ON PROJECTION FROM LOGS OR
SURFACE GEOLOGY.

MAP OF AREA
COVERED BY APPLICATION
N.M.O.C.C. CASE NO. 2881

VICINITY OF PUERTO CHIQUITO POOL
RIO ARriba COUNTY - NEW MEXICO
PRODUCTIVE AREA - EXTENT OF DEVELOPMENT -
CURRENT DRILLING ACTIVITY

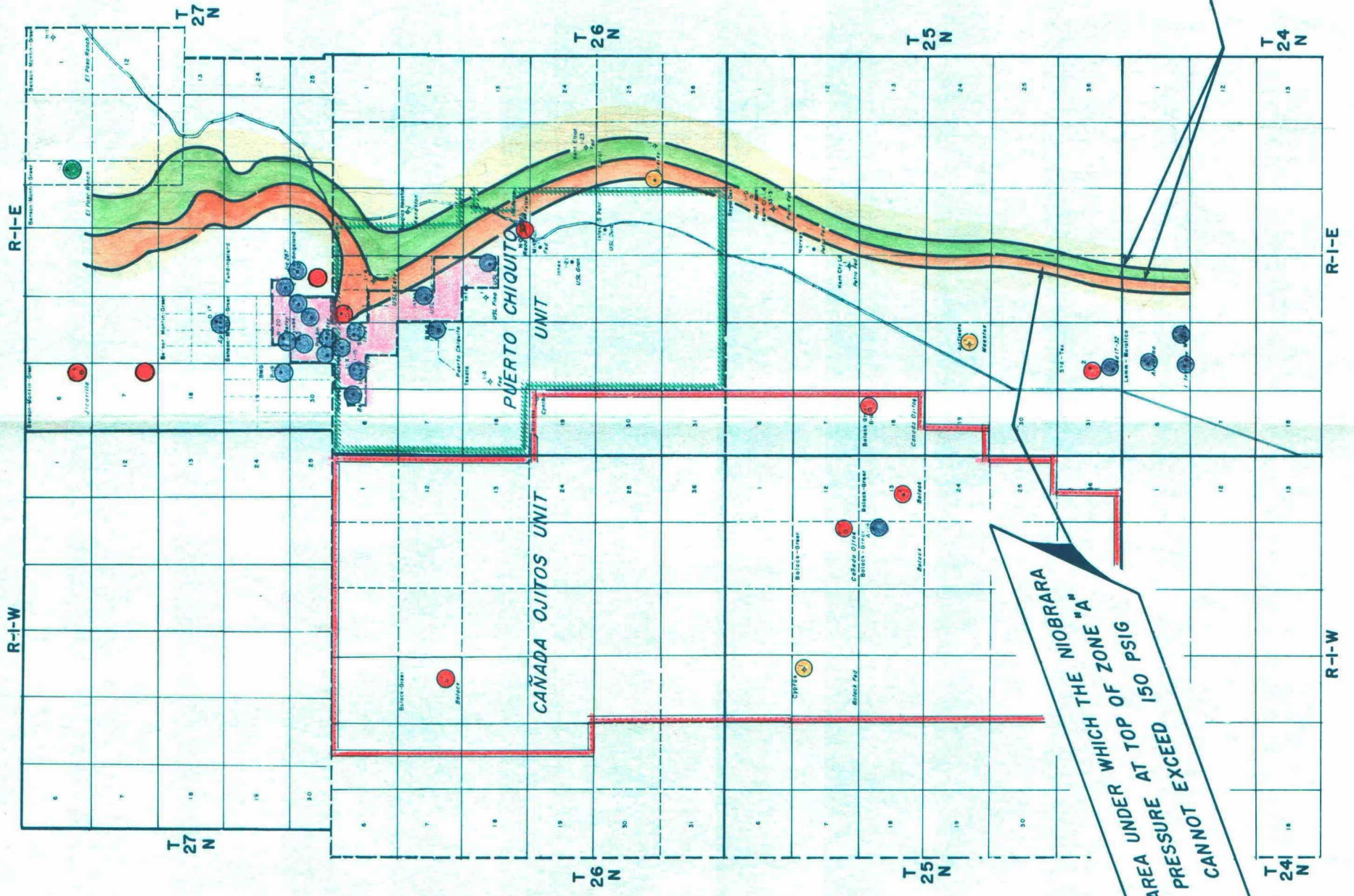
LEGEND

- WELL IN PRODUCING STATUS
- WELL SURVEYED, DRILLING, OR COMPLETION STATUS
- WELL INDICATING POSSIBILITY OF PRODUCTION OR WITH SIGNIFICANT SHOW OF OIL
- PRESENT BOUNDARY OF PUERTO CHIQUITO POOL DESIGNATED BY N.M.O.C.C.

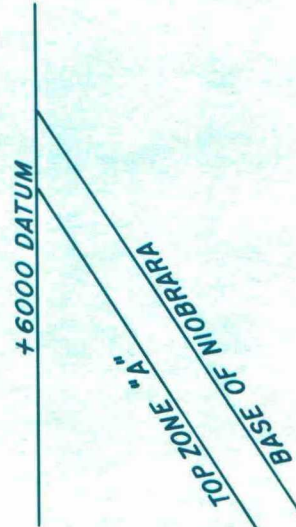
BENSON-MONTIN-GREER DRLG CORP.

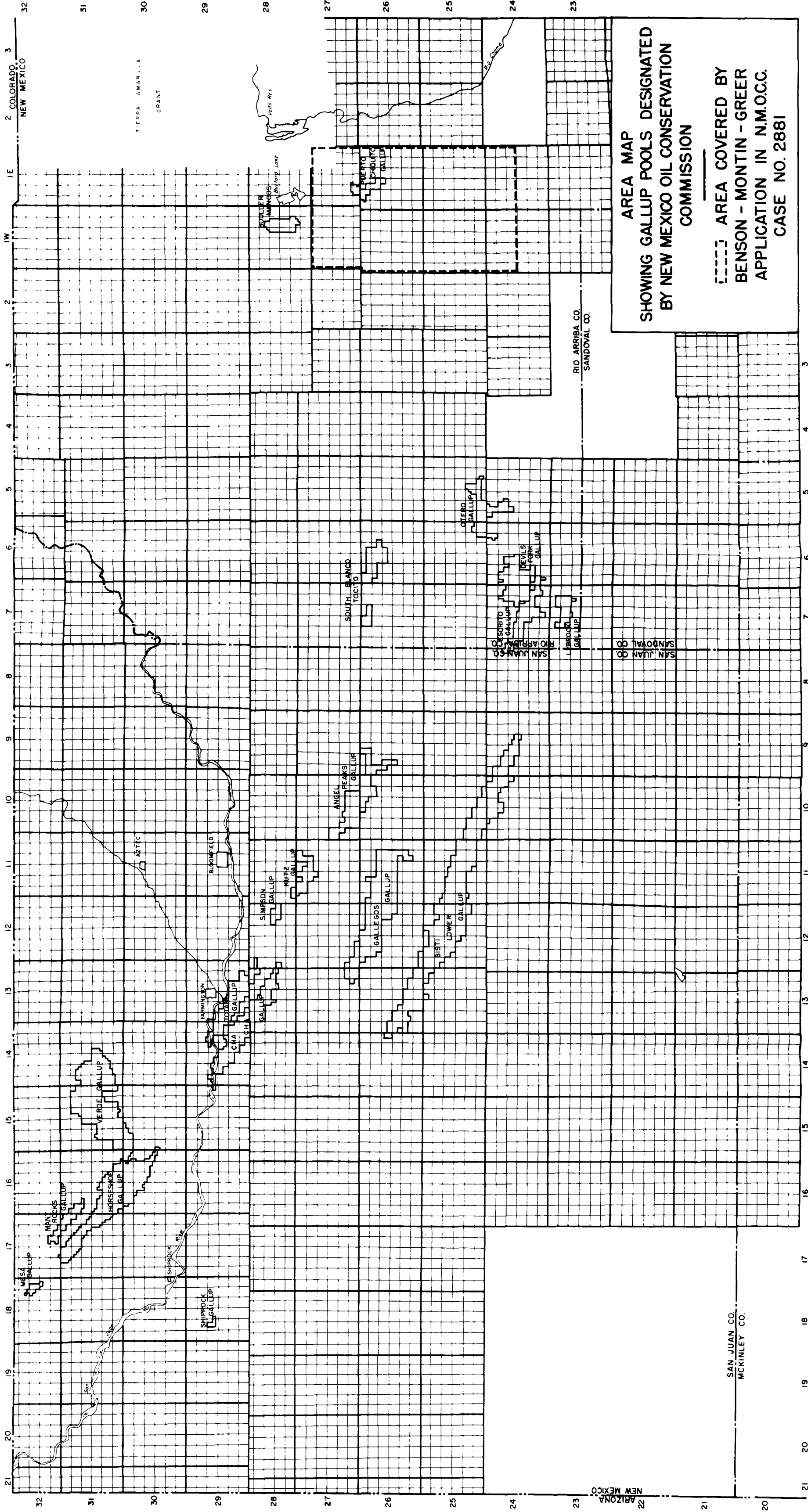
FARMINGTON, NEW MEXICO

SCALE 1 Mile AUGUST 1, 1963



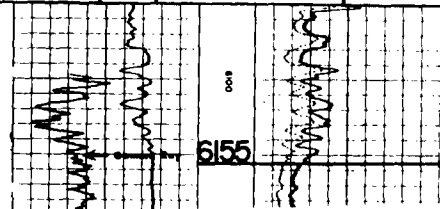
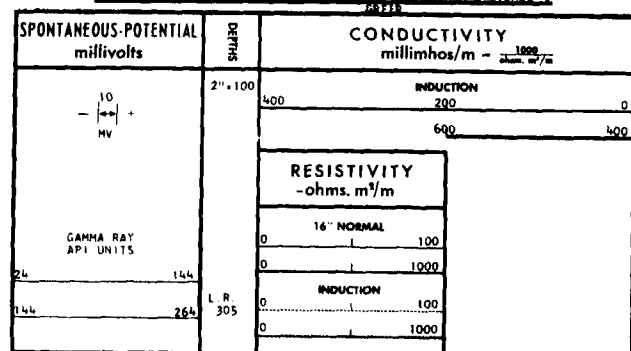
VERTICAL SECTION





BOLACK - GREER
#1 BOLACK
1080' F/SL 1920' F/EL SEC. 9-26 N-1W

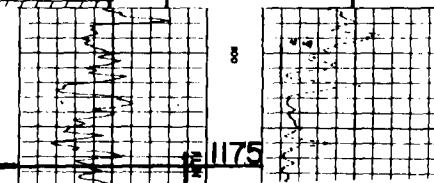
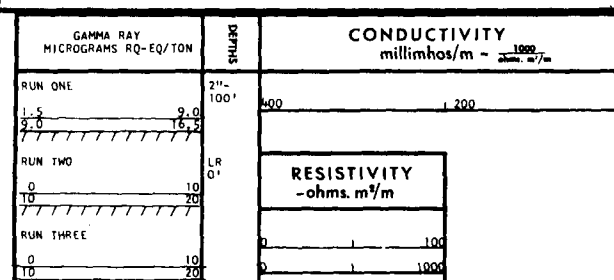
SCHLUMBERGER		INDUCTION ELECTRICAL LOG	
COUNTY - RIO ARriba, NEW MEX.	COMPANY - BOLACK-GREER ET AL.	Other Surveys GR & TH	
LOCATION - WILDCAT	WELL - BOLACK #1	Location of Well	
WELL - BOLACK #1	FIELD - WILDCAT	1080' FSL 1920' FEL	
COMPANY - BOLACK-GREER ET AL.	LOCATION - SEC. 9-26N-1W	SEC. 9-26N-1W	
STATE - NEW MEXICO	COUNTY - RIO ARriba	Elevation: D.F. 7761' K.B. 7750' or G.L. 7750'	
FILING No.			
RUN No.	ONE	TWO	THREE
Date	7-12-62	5-10-63	6-18-63
First Reading	3822	6308	7531
Last Reading	305	3822	6350
Feet Measured	3517	2483	1221
Cip. Schum.	105	6350	6350
Cip. Driller	105	6350	6350
Depth Reached	3823	6309	7522
Bottom Driller	3825	6300	7532
Depth Datum	KB	KB	KB
Mud Mat.	OIL EMUL	CHEM DIL	GEL 30% OIL
Dens. Visc.	9.80	8.81	7.91
Mud Resist.	4.78	7.23	6.80
Res. BHT	2.58	9.77	4.07
Res.	4.48	7.23	6.80
Temp. (C)	72.0	119.7	119.7
pH	10.3	9.0	7.8
Wtr. Loss	CC 30 min	5.0	CC 30 min
Bit Size	9 7/8	9 7/8	6 3/4
Spigs. - AM	16"	16"	16"
IND.	6FF40	34" 6"	34" 6"
Op. Rig Time	21 HOURS	21 HOURS	4 HOURS
Truck No.	2516FARM	2516FARM	2516FARM
Recorded By	DILLI	OBENCHAIN	MOOD
Witness	MR. LILLYBOLACK	STABBS	BOLACK



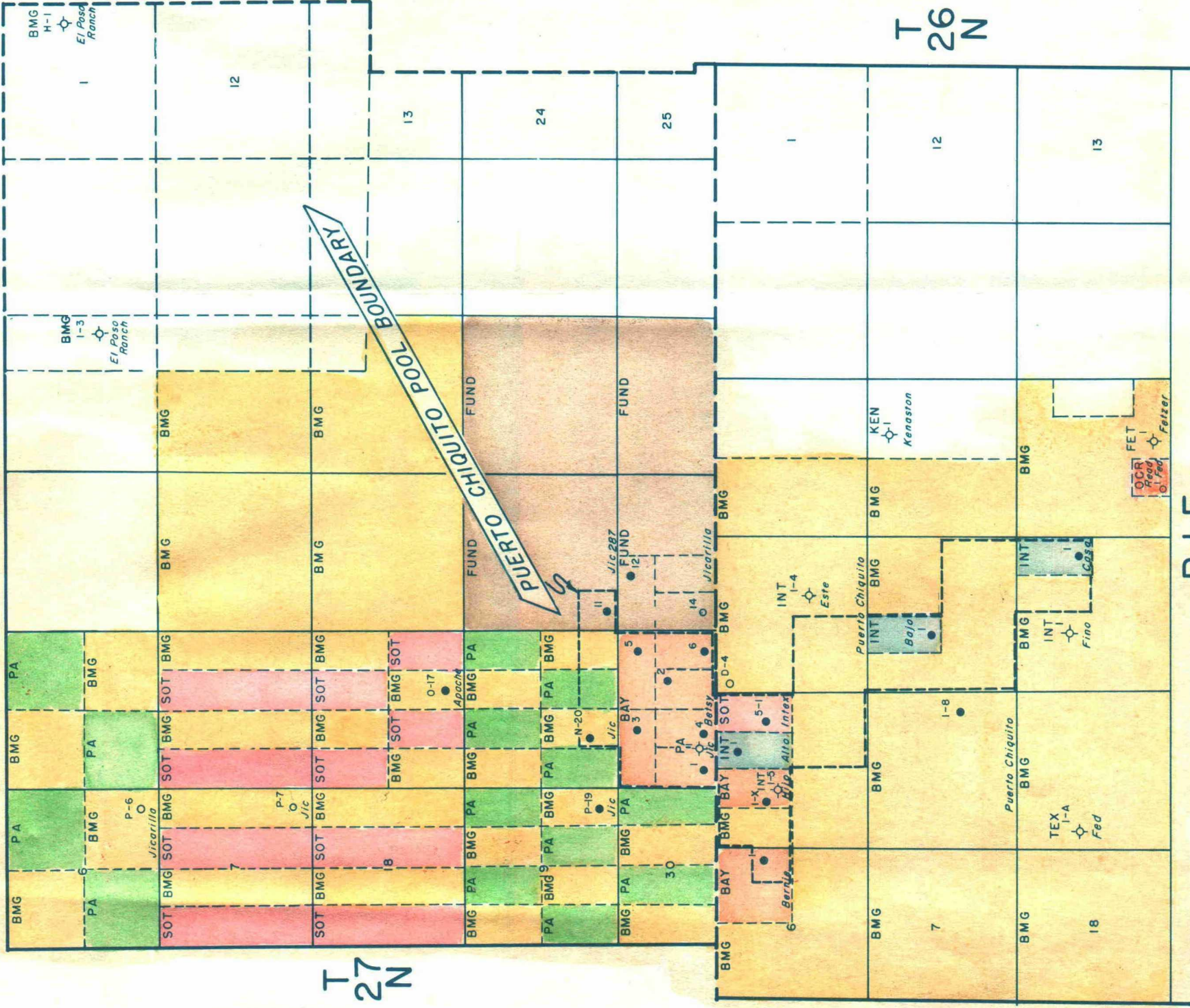
INTEX OIL COMPANY
#1 HIJO
1980' F/NL 1980' F/WL SEC. 5-26 N-1E

SCHLUMBERGER WELL SURVEYING CORPORATION		INDUCTION LOG GAMMA RAY LOG	
COUNTY - RIO ARriba, N. M.	COMPANY - INTEX OIL COMPANY	Location of Well	
LOCATION - PUERTO CHILQUITO	WELL - HIJO U.S.L. NO. 1	SEC. NW SEC. 5-26N-1E	
WELL - HIJO U.S.L. NO. 1	FIELD - PUERTO CHILQUITO	1980' FNL 1980' FNL	
COMPANY - INTEX OIL COMPANY	LOCATION - SEC. 5-26N-1E	(NONE)	
STATE - NEW MEXICO	COUNTY - RIO ARriba	Elevation: D.F. 7102' K.B. 7102' or G.L. 7102'	
FILING No.			
RUN No.	ONE	TWO	THREE
Date	7-26-60	8-11-60	8-11-60
First Reading	1202	1200	2972
Last Reading	28	0	1209
Feet Measured	1170	1200	1801
Cip. Schum.	28	1209	1801
Cip. Driller	28	1209	1801
Depth Reached	1208	1208	2978
Bottom Driller	1202	1202	2969
Depth Datum	DF	DF	DF
Mud Mat.	WATER	DF	DF
Density	1.0	1.0	1.0
Viscosity	10	10	10
Resist.	10	10	10
Res. BHT	10	10	10
pH	10	10	10
Wtr. Loss	CC 30 min	CC 30 min	CC 30 min
Max. Temp. F	10	10	10
Bit Size	10"	10"	10"
SPCS	1ND SFF40	1ND SFF40	1ND SFF40
TYPE EQUIP	GNC-6	GNC-6	GNC-6
TYPE PANEL	GNC-6	GNC-6	GNC-6
Op. Rig Time	3 1/4 HRS	1 HR	1 HR
Truck No.	2516FARM	2516FARM	2516FARM
Recorded By	HANDLEY	HANDLEY	CLAYTON
Witness	PETERSON	JORGENSEN	JORGENSEN

REMARKS	RUN ONE	RUN TWO	RUN THREE
CARTRIDGE NO.	C182	134	1505
PANEL NO.	B237	41	2808
SOURCE NO.	1269	132	1571
GR CALIBRATION	8130-540-100(400)	688100-490-100(400)	88-560-100(400)



R-1-E



LAND MAP

OF

PART OF PUERTO CHIQUITO AREA

RIO ARriba COUNTY - NEW MEXICO

LEASE OWNERSHIP

AREA OF SMALL TRACTS

- BENSON-MONTIN-GREER DRLG CORP. - LEASE OR OPTION
- PAN AMERICAN PETROLEUM CORP.
- R. L. BAYLESS
- E. L. FUNDINGSLAND
- INTEX OIL CO.
- HAROLD O'CONNOR

ABBREVIATIONS

- BMG - BENSON-MONTIN-GREER DRLG CORP.
- PA - PAN AMERICAN PETROLEUM CORP.
- SOT - STANDARD OIL COMPANY OF TEXAS
- BAY - R. L. BAYLESS
- FUND - E. L. FUNDINGSLAND
- INT - INTEX OIL CO.
- KEN - DOUGLAS KENASTON
- OCR - HAROLD O'CONNOR
- FET - J. H. FETZER

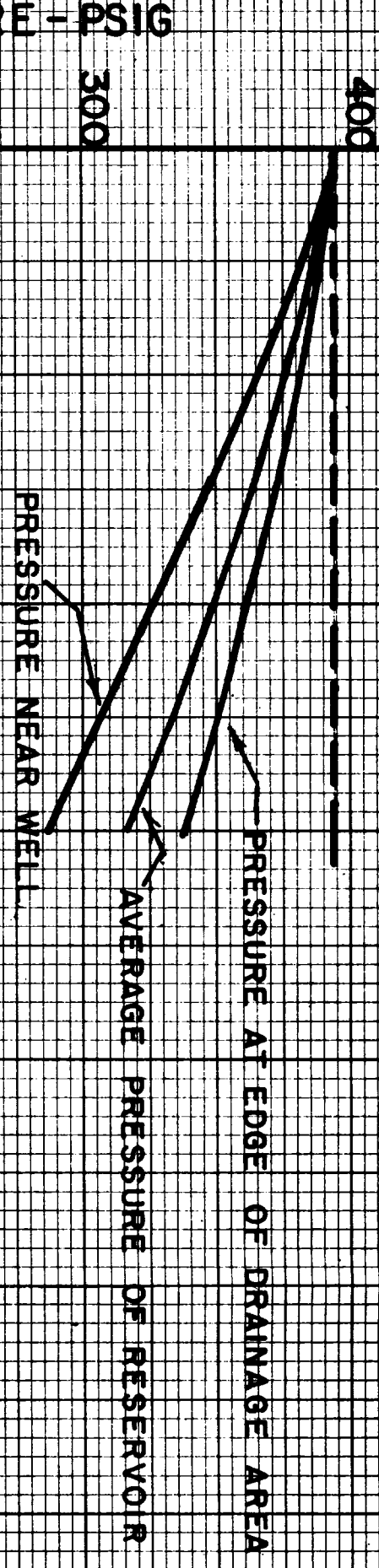
BENSON-MONTIN-GREER DRLG CORP.

FARMINGTON - NEW MEXICO

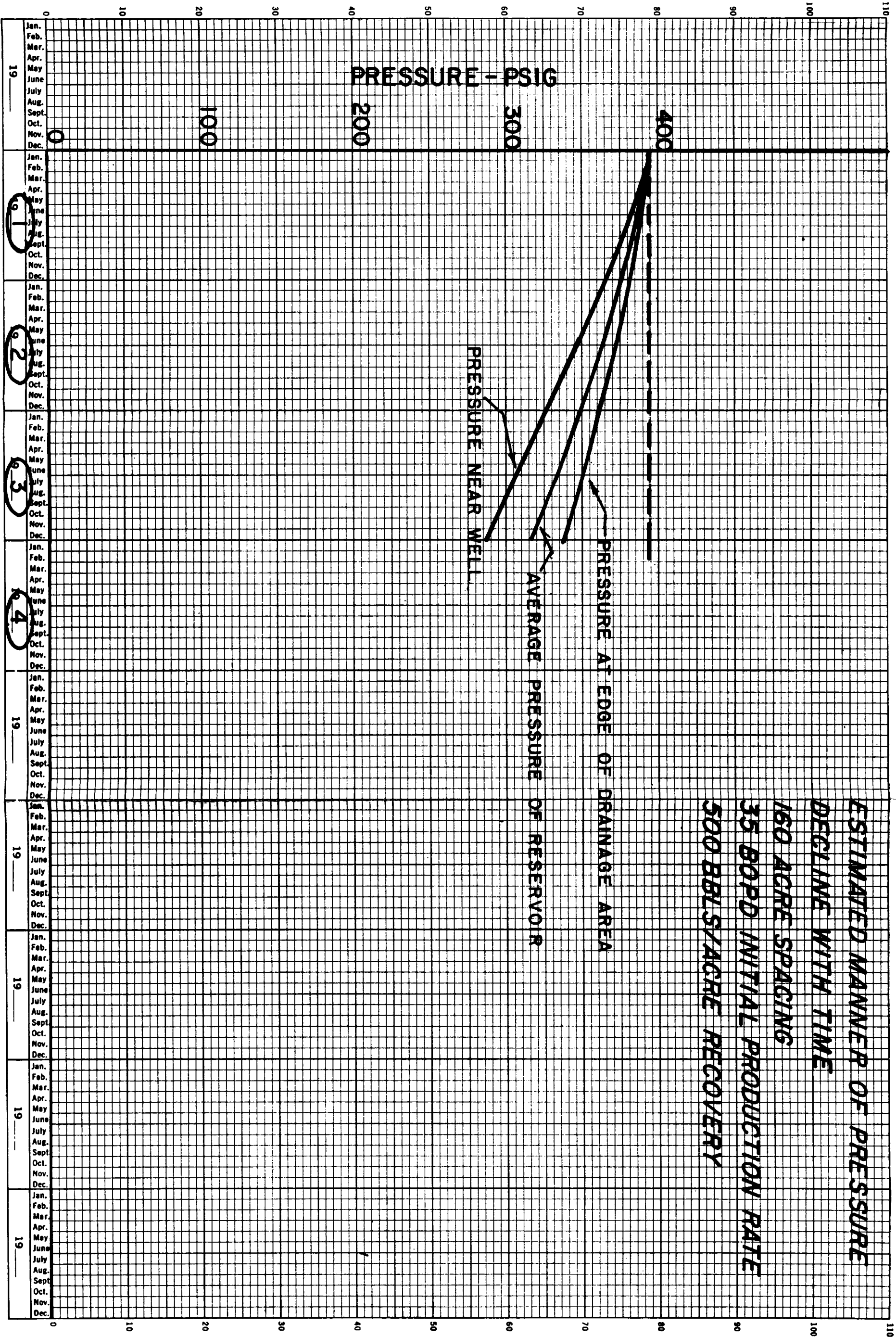
Scale 1 Mile

August 12, 1963

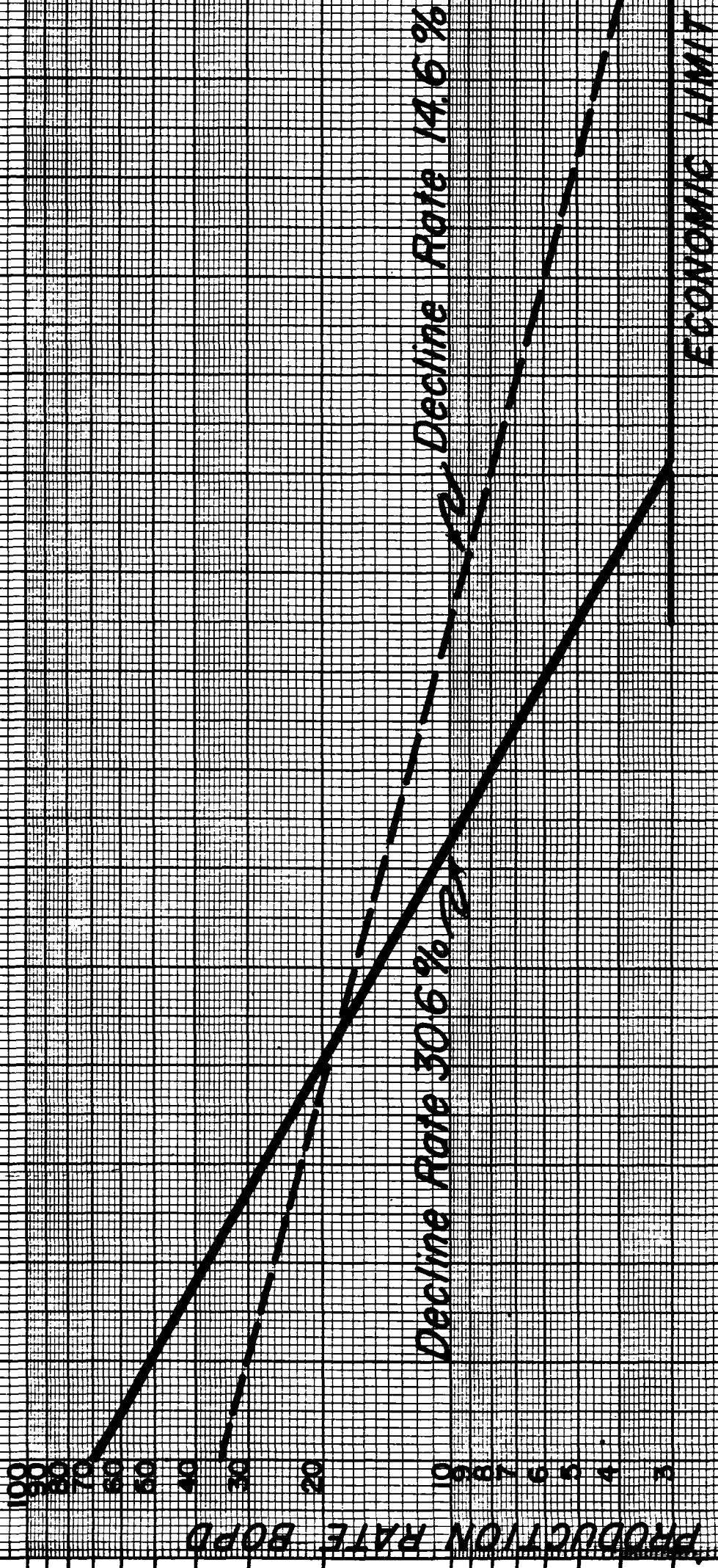
ESTIMATED MANNER OF PRESSURE
DECLINE WITH TIME
160 ACRE SPACING
35 BOPD INITIAL PRODUCTION RATE
500 BBL/S/ACRE RECOVERY



TIME - YEARS



THEORETICAL DECLINE CURVES
FOR WELLS WITH INITIAL PRO-
DUCTIVITIES OF 35 BOPD AND
75 BOPD-80,000 BBLs PER WELL
ULTIMATE RECOVERY.



BOTTOM HOLE PRESSURE - JONES #3 - DATUM + 350 ft.

BENSON MONTIN GREER DRLG CORP.

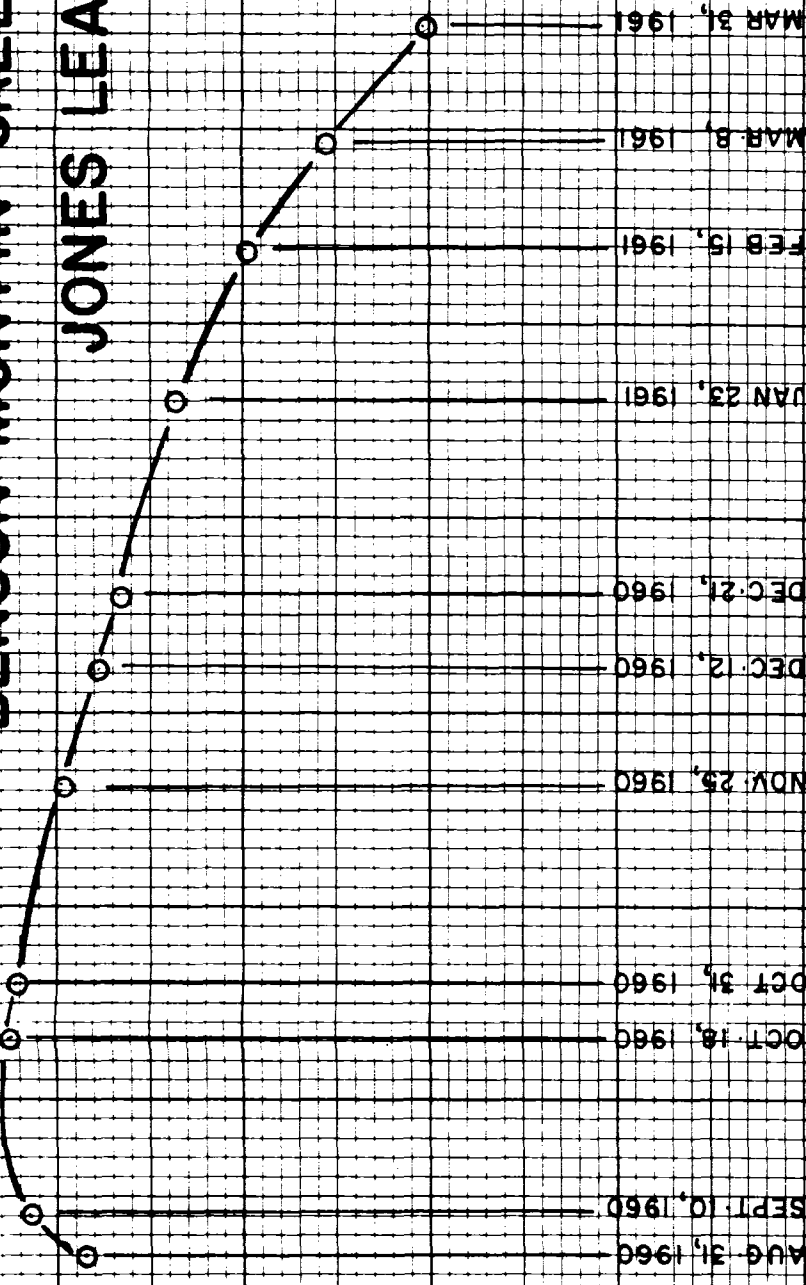
JONES LEASE

1500
1400
1300
1200
1100
1000
900
800
700

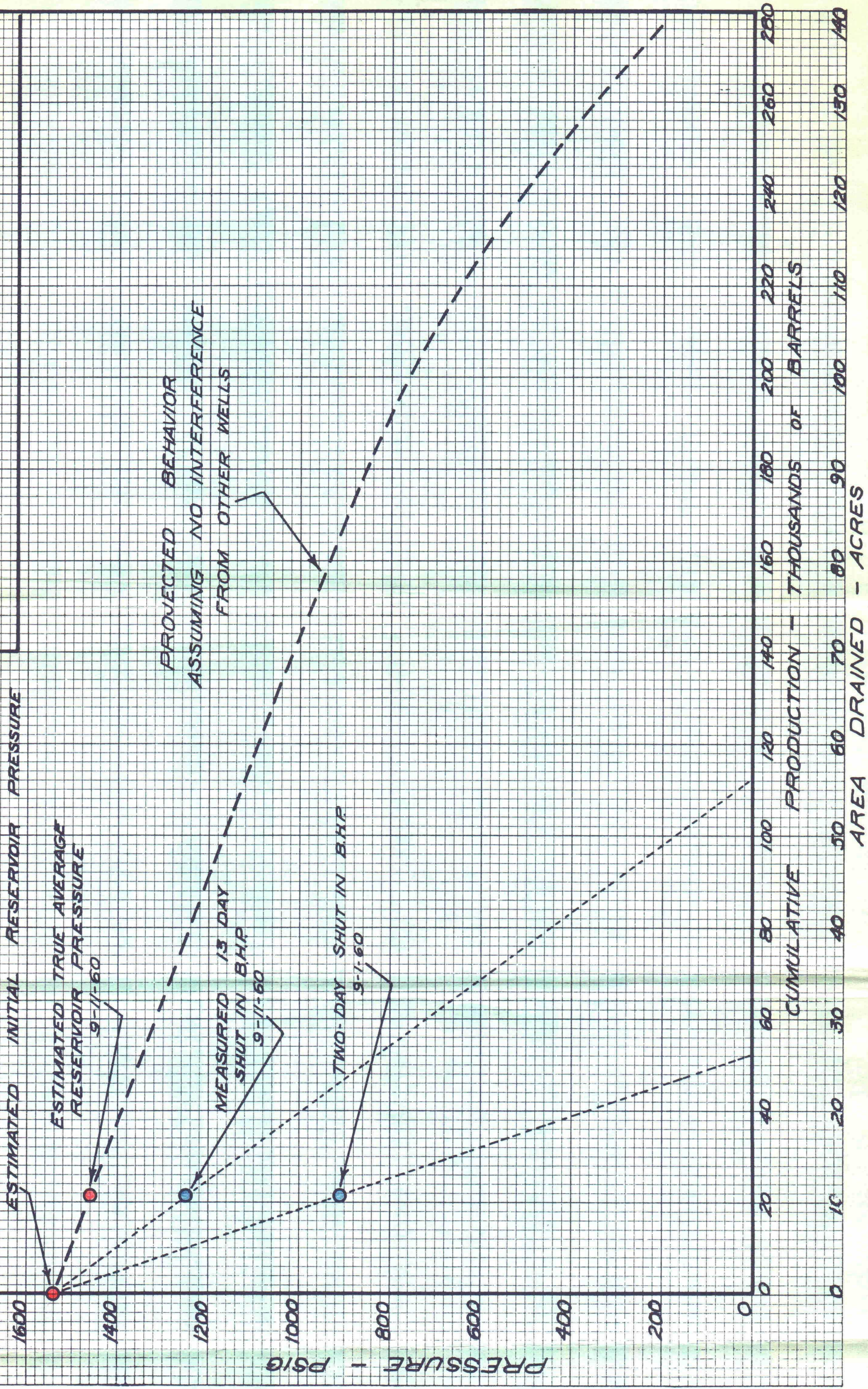
200 300

CUMULATIVE OIL PRODUCTION - THOUSANDS of BBLs.

CHA CHA 80 ACRE SPACING
N.M.O.C.C. CASE NO. 2069
OCT. 18, 1961
ORIGINALLY PRESENTED IN
CHA CHA GALLUP POOL



PRESSURE VS CUMULATIVE PRODUCTION BENSON-MONTIN-GREER No 2 JONES



PRESSURE VS CUMULATIVE PRODUCTION BENSON - MONTIN-GREER N-20 JICARILLA

ESTIMATED INITIAL RESERVOIR PRESSURE - 395 psig

ESTIMATED TRUE AVERAGE RESERVOIR PRESSURE

8-1-63

387 psig

MEASURED 6 DAY SHUT IN BHP

7-30-63

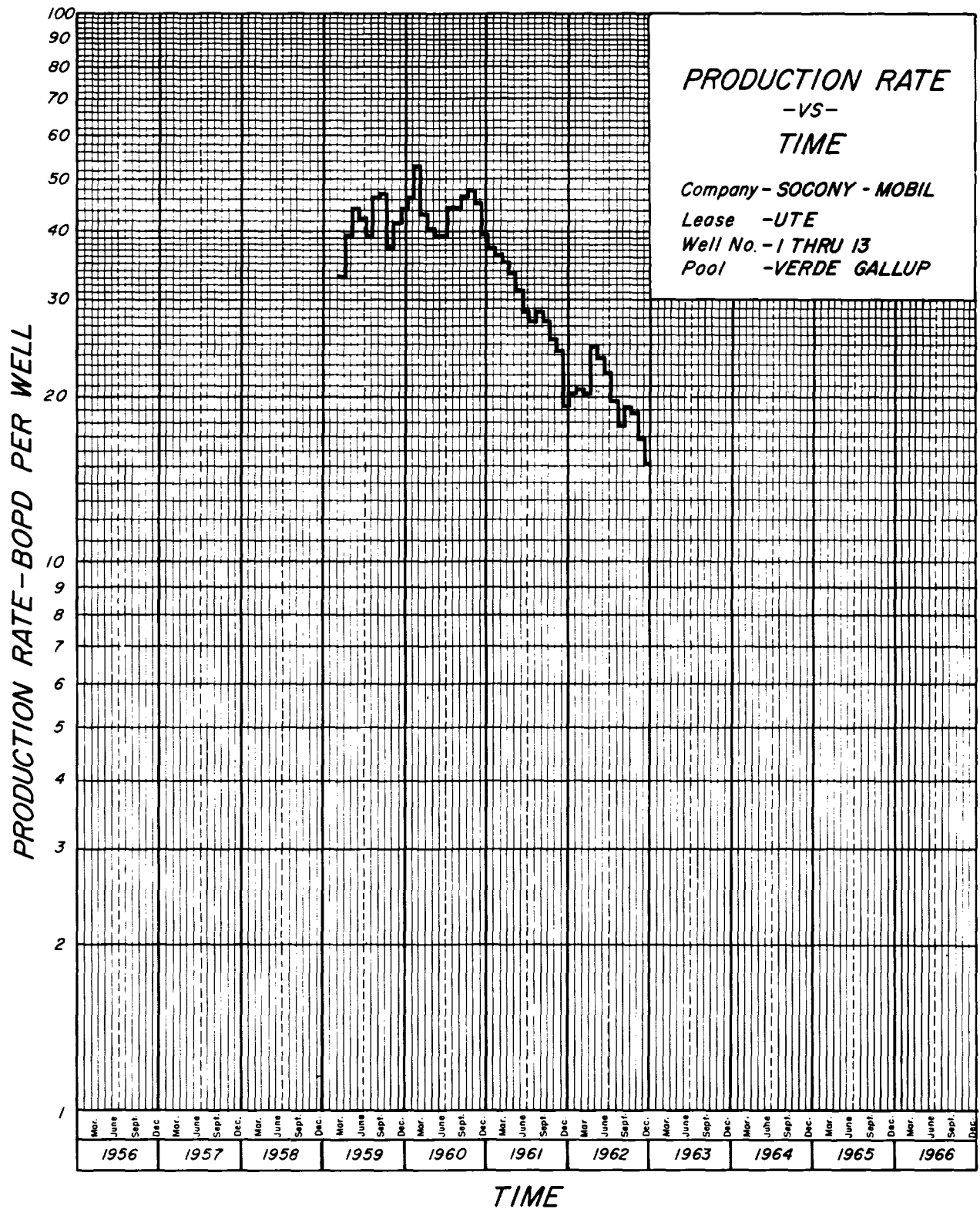
371 psig

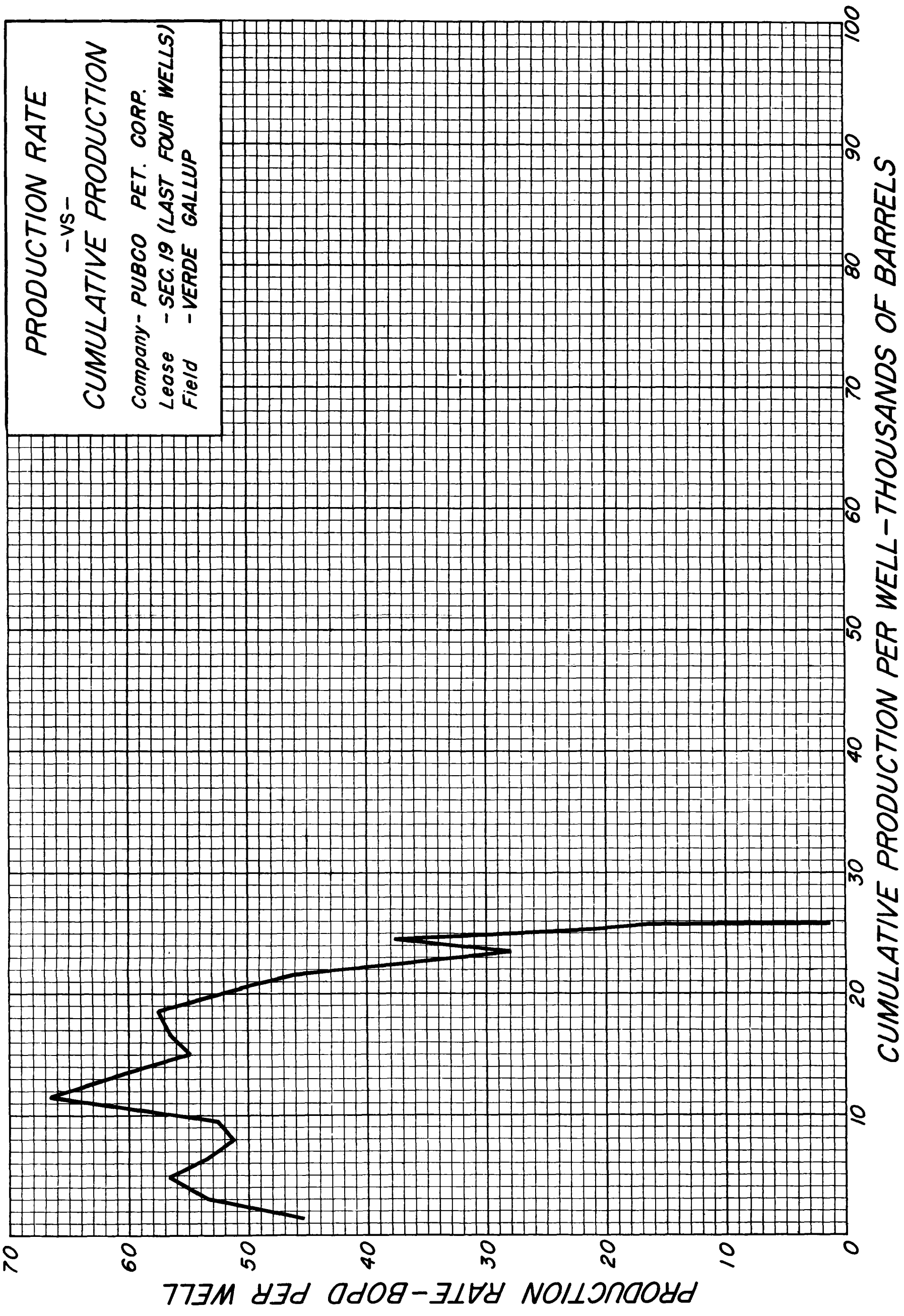
PROJECTED BEHAVIOR ASSUMING NO INTERFERENCE FROM OTHER WELLS

PRESSURE - PSIG

CUMULATIVE PRODUCTION - THOUSANDS OF BARRELS

AREA DRAINED	AT 500 BARRELS PER ACRE	RECOVERY - ACRES
0	0	0
20	40	20
40	80	40
60	120	60
80	160	80
100	200	100
120	240	120
140	280	140
160	320	160
180	360	180
200	400	200
220	440	220
240	480	240
260	520	260
280	560	280
300	600	300





PRODUCTION RATE

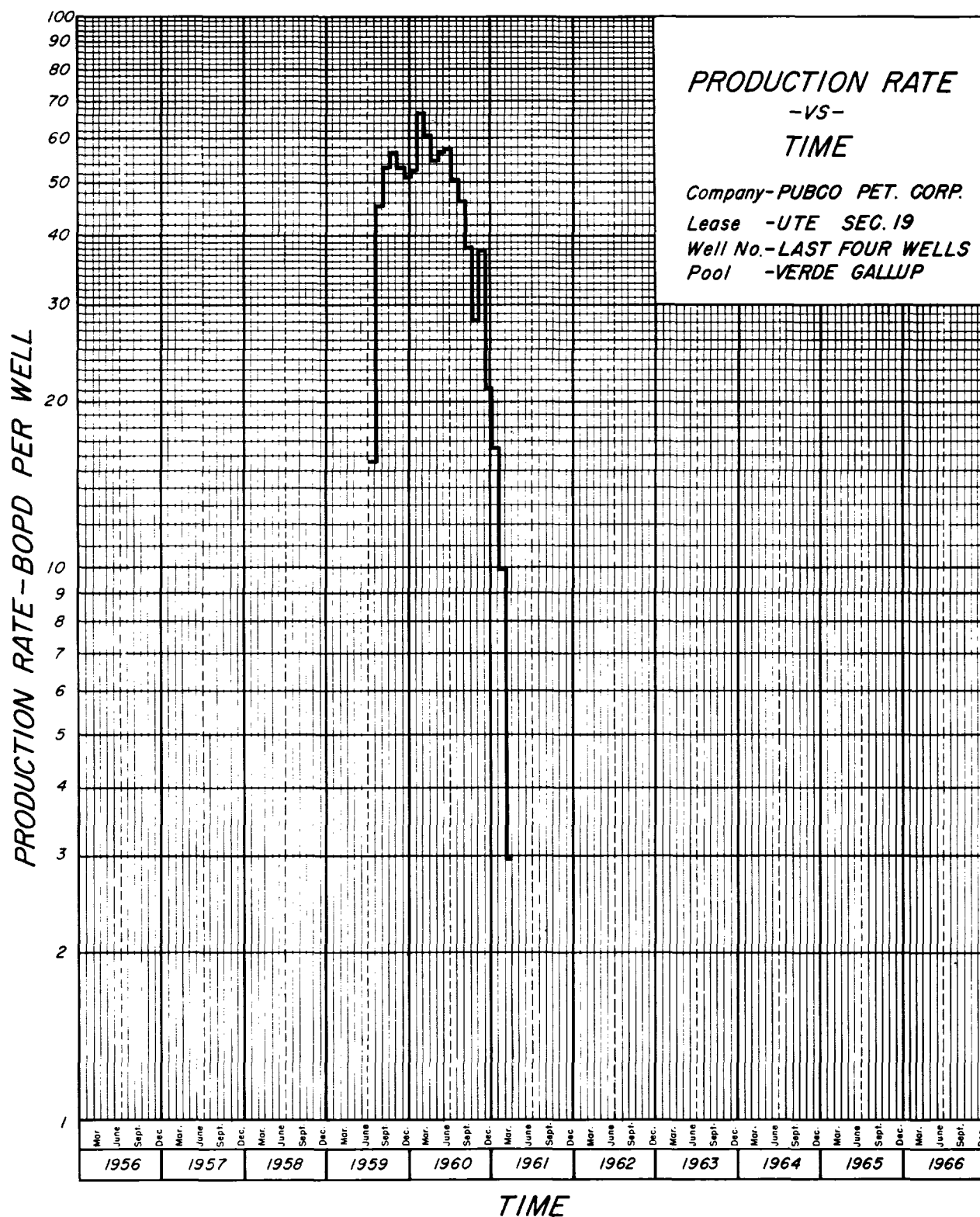
--VS--

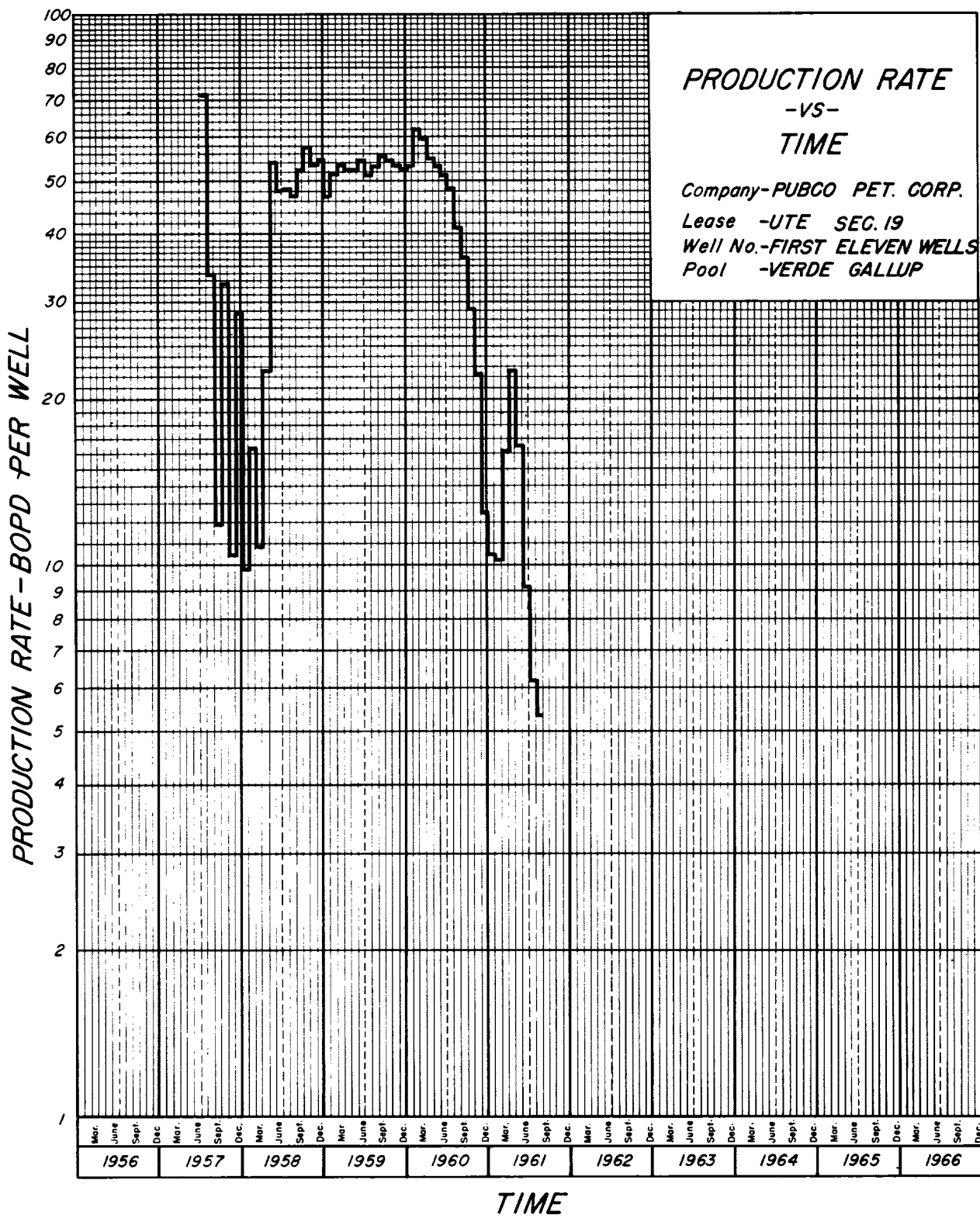
CUMULATIVE PRODUCTION

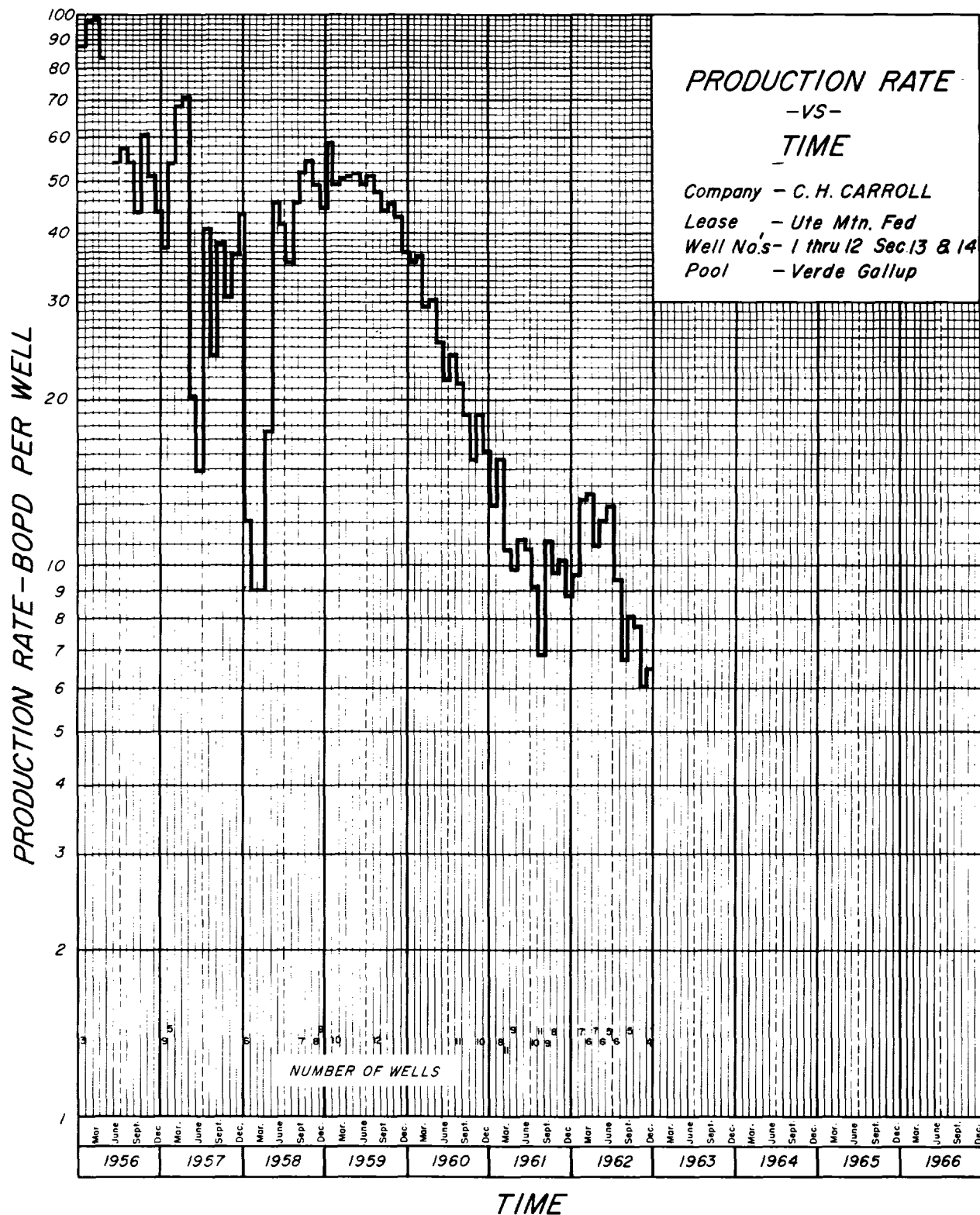
Company - PUBCO PET. CORP.

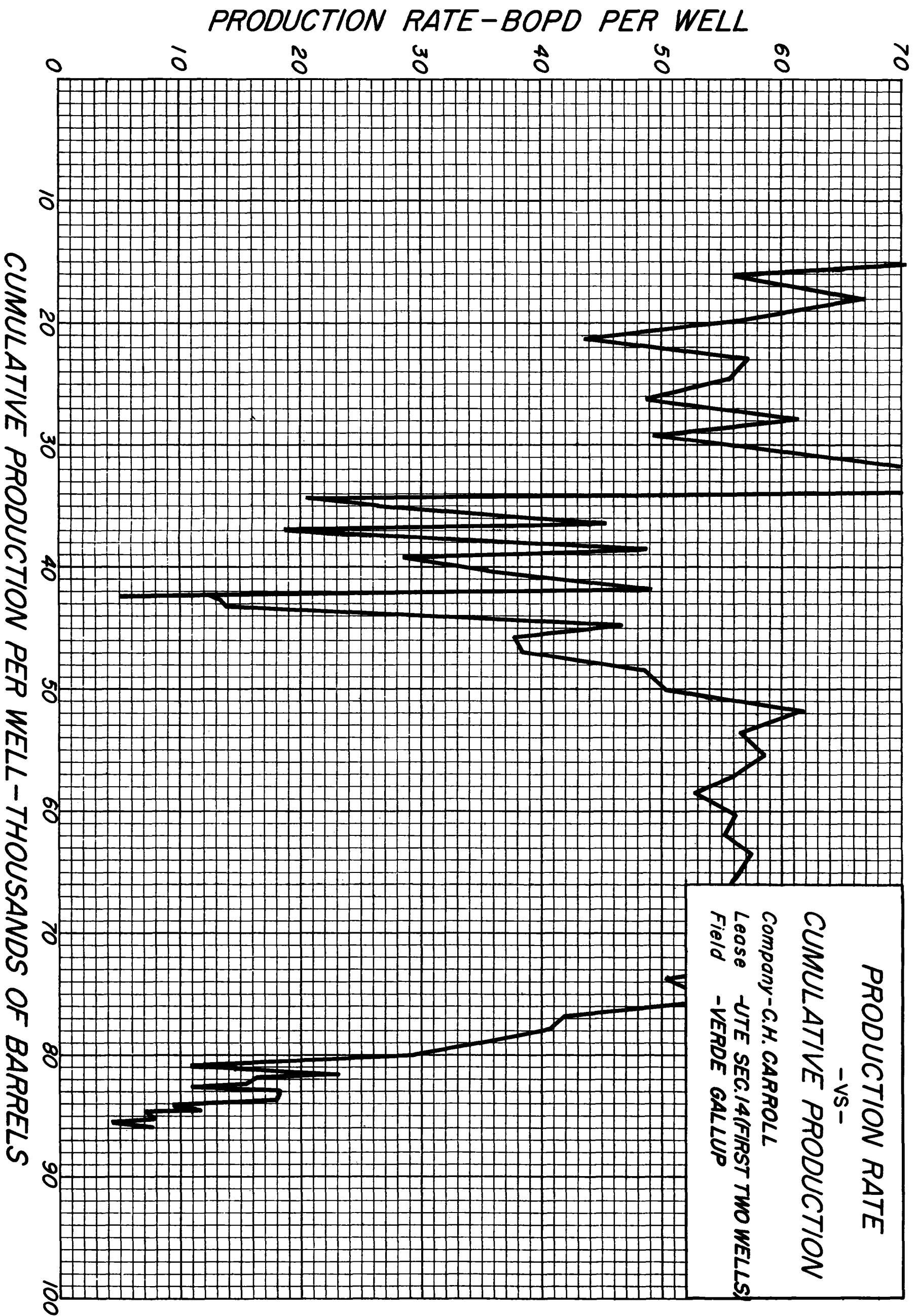
Lease - SEC. 19 (LAST FOUR WELLS)

Field - VERDE GALLUP

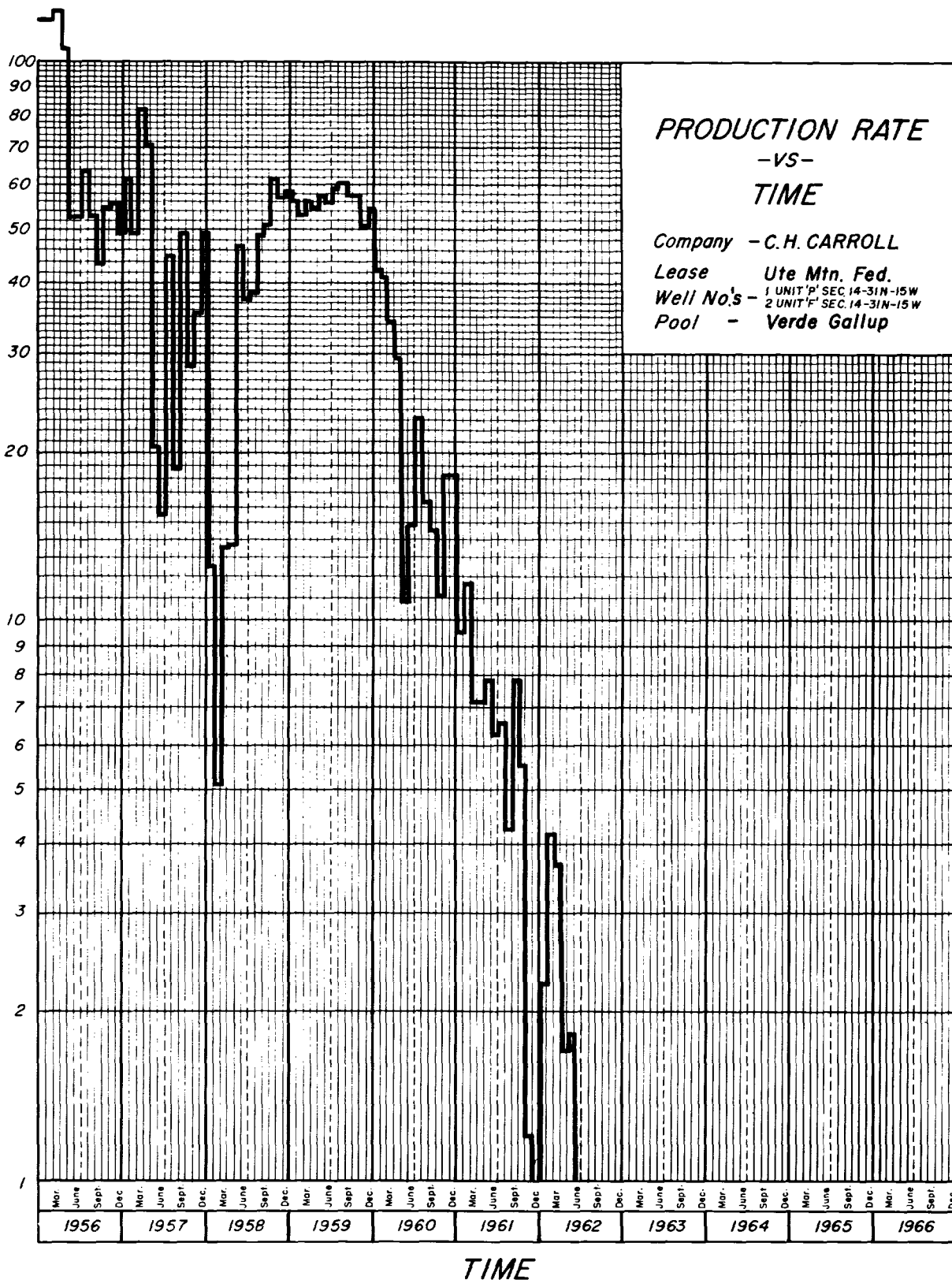


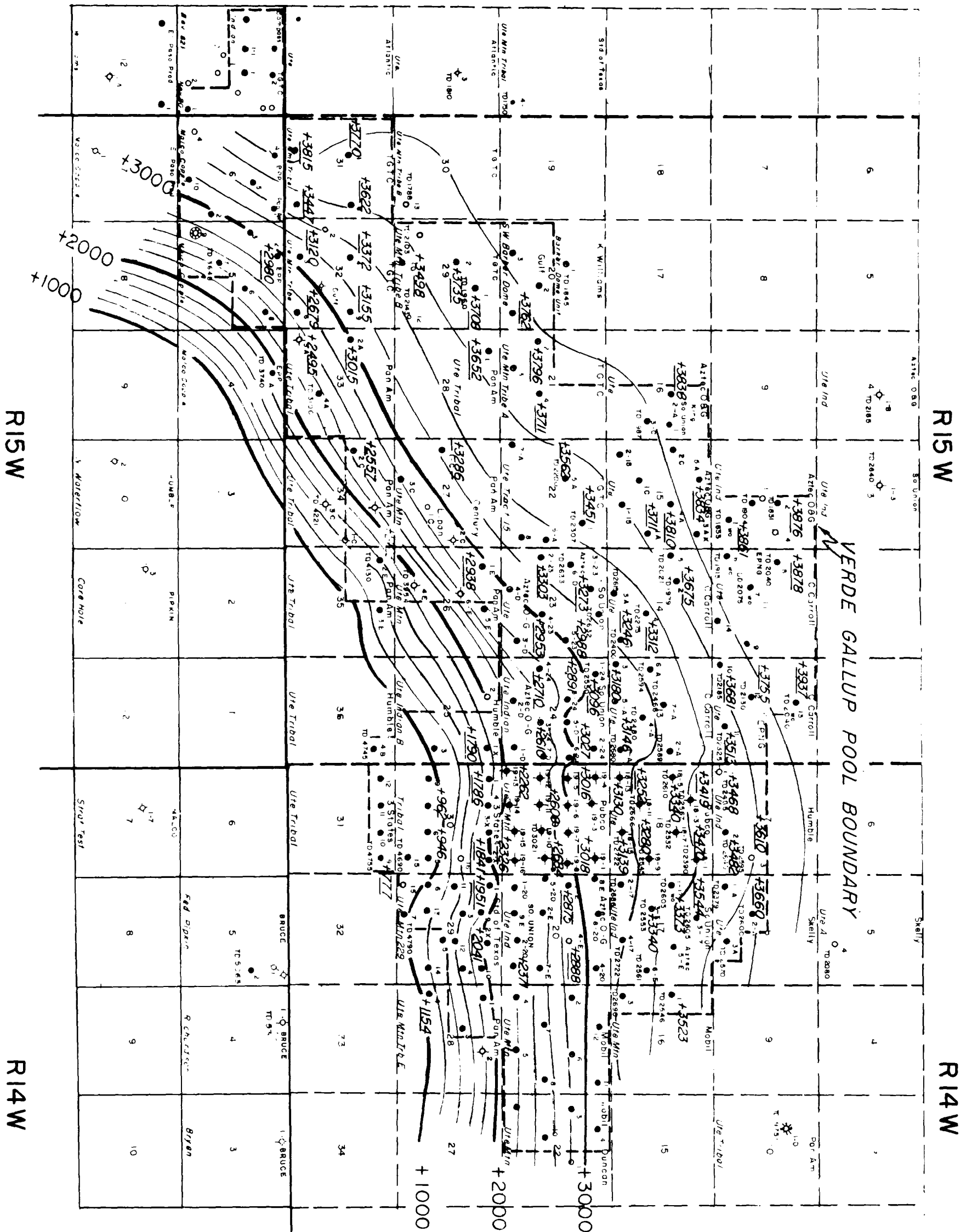






PRODUCTION RATE - BOPD PER WELL





BENSON-MONTIN-GREER DRUG CORP.
FARMINGTON, NEW MEXICO

CONTOUR-TOP GALLUP PAY
VERDE GALLUP POOL

SAN JUAN COUNTY-NEW MEXICO

CONTOUR INTERVAL - 200 FT. SCALE 1 Mile
Date - August 1, 1963

BOTTOM HOLE PRESSURE BUILD-UP

BENSON-MONTIN-GREER N-20 JICARILLA

NOVEMBER, 1962 DATUM +4900

LOCATION: N-20 T27N-R1E

ESTIMATED PRESSURE OF RESERVOIR
NEAR WELL BORE

