## TOTAH GALLUP FIELD, SAN JUAN COUNTY, NEW MEXICO

#### PERTINENT DATA

Date of Discovery Name of Producing Formation Type of Structure Type of Producing Formation Producing Machanism Pipeline Serving Field	September 4, 1959 Lower Gallup Stratigraphic Sand and Shaley Sand Solution Gas Drive None (Four Corners Pipeline Now Being Constructed)
Type Crude	Sveet
Type Gas	Bveet
Gravity of Oil	41.0° API @ 60° F.
Average Depth of Pay	5600 '
Cumulative Production 1/1/61 011 Water	208,607 Bbls None
Number of Producing Wells 1/1/61	15
Number of Dry Holes	None
Number of Drilling and Completing 1/1/61 Top Allowable	7
Field Developed Acreage 40-acre Spacing 1/1/61	600
Present Producing Rate 1/1/61 Top Well Allowable BOPD	1066 94

#### REBERVOIR DATA

Average Porosity of Pay	14.2%)
Average Permeability	106 md) Core Data
Average Water Saturation	29.7%)
Initial Reservoir Pressure	
P810 @ +188' Datum	1634
Solution Gas-Oil Ratio ft. 3/bbl	615
Original Reservoir Volume Factor	1.377
Bottom Hole Temperature	155° F.

EXHIBIT I

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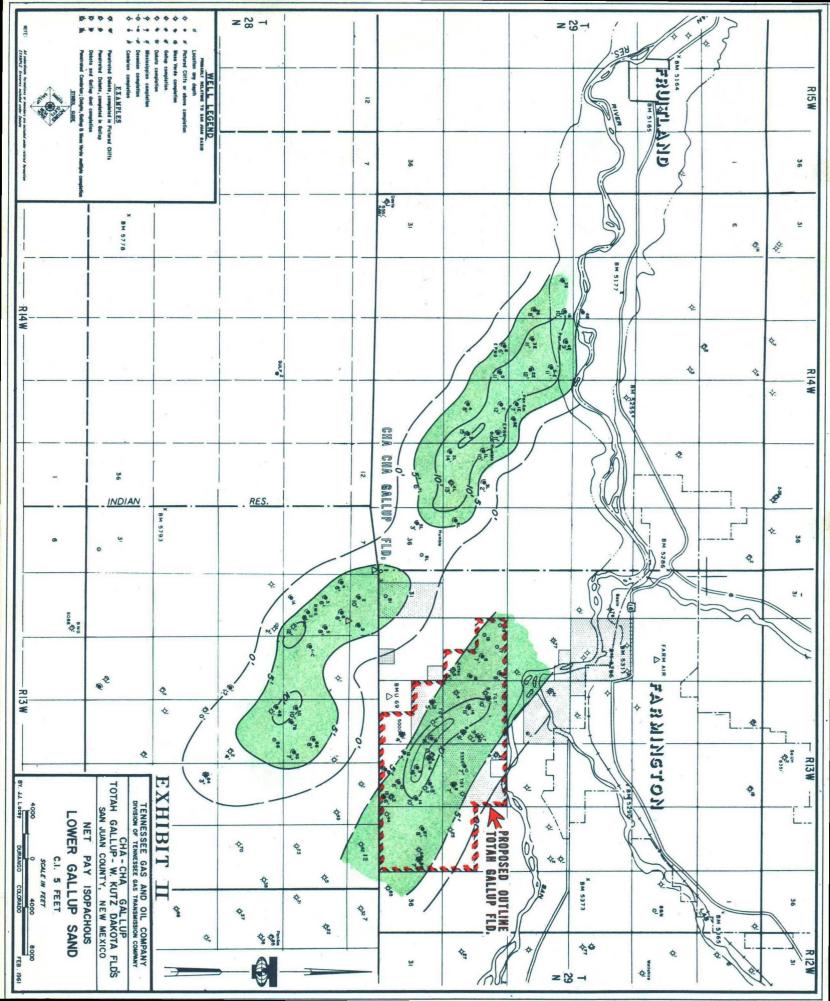
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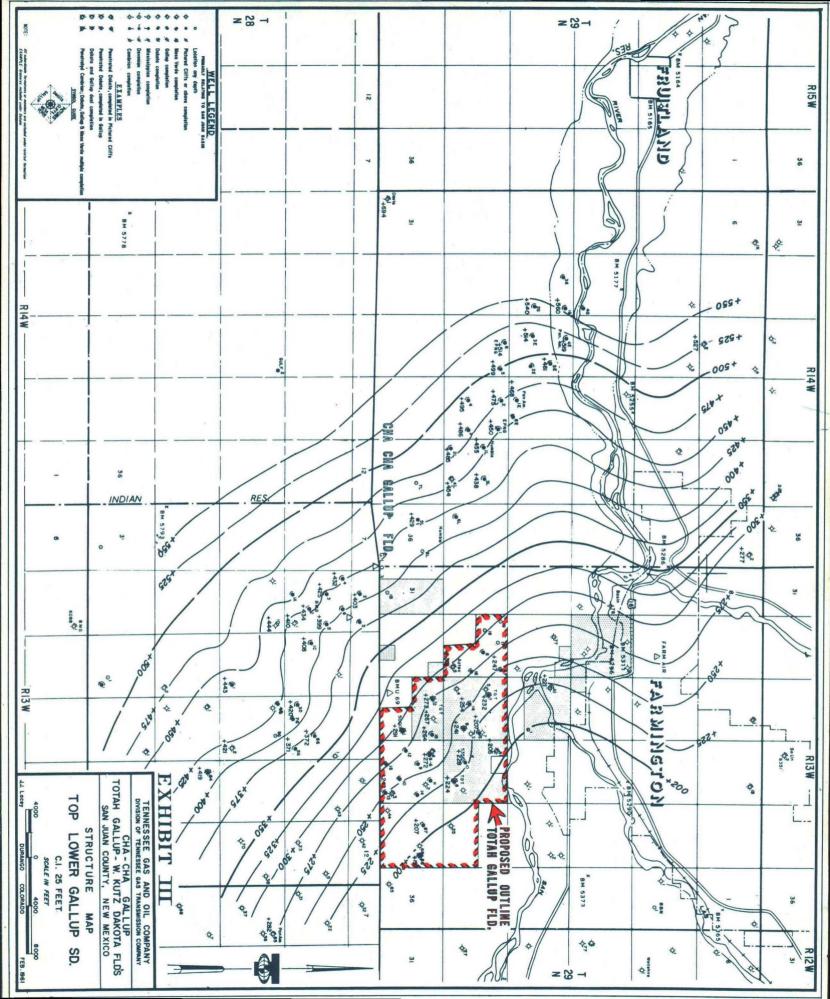
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#### AVERAGE PER WELL RESERVES FOR TOTAH GALLUP FIELD

Weighted Average Porosity14.2% (Core Data)Water Saturation29.7% (Capillary Pressure Data)Reservoir Volume Factor1.377 (Bottom Hole Fluid Sample)Recovery Factor12.5% (Based on Material Balance<br/>Calculations, kg/ko Core<br/>Data Bottom Hole Fluid<br/>Sample)

7758 (1')(.142)(1-.297)(.125) = 70.2 BO/Ac-Ft

Average per well recovery on 80-acre spacing based on 80-acre spacing and 9.1' net pay

51,000 Bbl

EXHIBIT X

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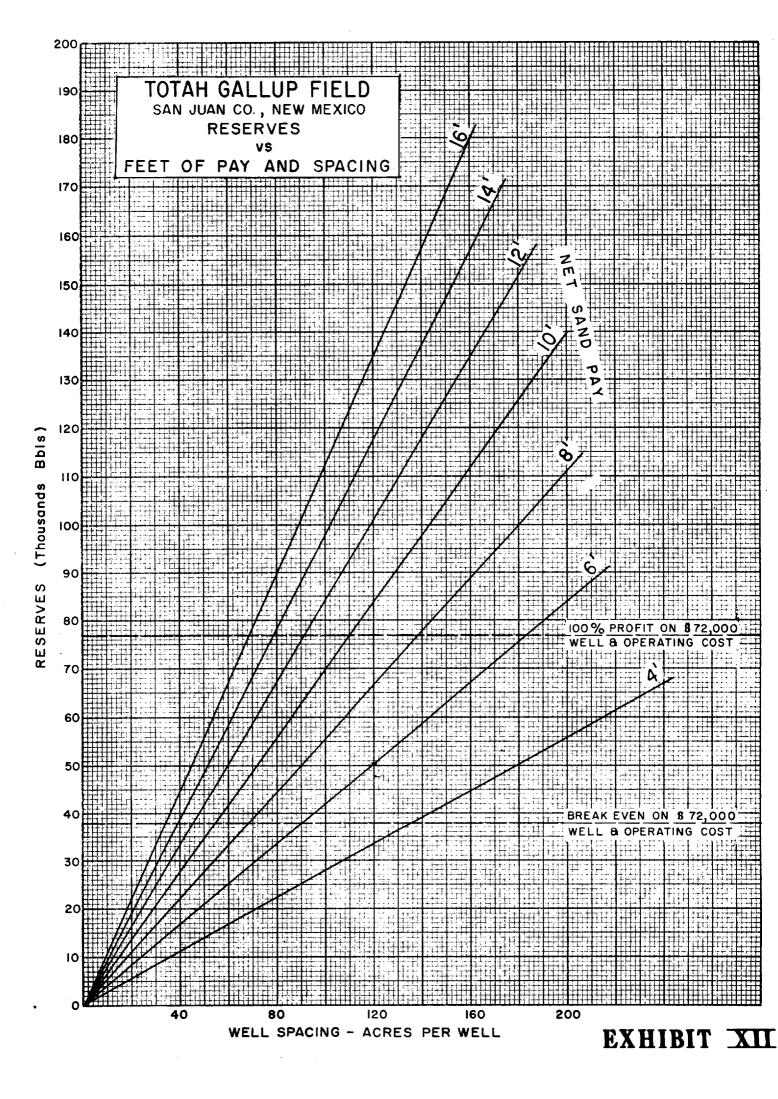
#### ECONOMICS OF TOTAL GALLUP FIELD DEVELOPMENT ON 80-ACRE SPACING

Completed Well Cost (5500') Pumping Unit, Engine, Sucker Rods, Pump, Etc. Prorata Share Lease Facilities, Tank Battery, Flow Line, Etc. Total	\$65,000 6,000 <u>1,000</u> \$72,000
Value of Crude Well Head Price Value of Crude After Trucking, Taxes, Basic 1/8 Royalty	\$2.75/dd1 \$2.00/dd1
Barrels of Stock Tank Oil Recovery Required to Pay Bank Investment (Not Considering Operating Cost)	36,000 ъъ1
Average Direct Operating Cost During Life	\$150/mo/well
Value of Recoverable Reserves Less Development Costs Less Direct Operating Costs Profit to Operator	\$102,000 - 72,000 - <u>6,300</u> \$ 23,700 (33% of Investment)

EXHIBIT XI

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#### TOTAH GALLUP FIELD

#### Source Oil Company, Caller Longe BHF BAEA

LEASE	WELL.		SHIP-IN TIM PRICE TO SHP THOT, MG.	NHP AT 186' DATCH PSID
Cullow	8	9-3-59 3-31-60	194 96	1634 + 1548
Callew	9	18-1-59 3-31-60 9-1-60	72 182 112	1603 * 1564 1543
Caller	11	1- <b>3-60</b> 4-5-60 10-31-60 6-3-61	116 93 1558 72	1608 + 1582 1562 1343
Caller	12	8-86-60 4-3-60	72 96	1683 * 1594
Callow	13	10-10-60 6-4-61 18-8-61	76 72 194	1 <b>598 *</b> 1370 763
Callor	14	12-4-60 6-3-61	7# 73	1537 <b>*</b> 1337
Callow	15	1-8-61 6-4-61	72 92	1473 + 1361
Callow	16	3-80-61 6-3-61	61 72	1473 * 1367
Callew	17	6-3-61	74	1350
Callow	18	4-7-61 6-4-61	75 75	1169 * 1398

\* Initial BEP, well shut in immediately after potential test.

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#### BOTTOM HOLE PRESSURE DATA ASPEN FEDERAL NO. 1-11 TOTAH GALLUP OIL POOL

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Completion Date	August 2, 1961
Date of Pressure Measurement	August 5, 1961
Shut in Time	72 hours
Bottom Hole Pressure @ + 200 Datum	1337 psig
Original Pressure of Totah Gallup Oil Pool @ + 200 Datum	1623 psig
Loss of Pressure in Federal No. 1-11 due to Interference	286 psi

#### CALCULATION OF PRESSURE INTERFERENCE AREA

Nearest Producing Well to Federal No. 1-11 at Time of Completion (Gallegos Canyon Unit No. 99)	1450 feet
Area of Circle with Radius of 1450 feet	151 acres
Area of Pressure Interference	151 acres

BEFORE EXAMINER NUTTER		
OIL CONSER	VATION COMMISSION XHIBIT NO	
CASE NO	2.184 (3-7-62)	

#### BOTTOM HOLE PRESSURE DATA GALLEGOS CANYON UNIT NO. 92 TOTAH GALLUP OIL POOL

Completion Date	May 1, 1961
Date of Pressure Measurement	May 8, 1961
Shut in Time	64 Hours
Bottom Hole Pressure @ + 200 Datum	1535 psig
Original Pressure of Totah Gallup Oil Pool @ + 200 Datum	1623 psig
Loss of Pressure in Gallegos Canyon Unit No. 92 due to Interference	88 <b>ps</b> i

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#### CALCULATION OF PRESSURE INTERFERENCE AREA

Nearest Producing Well to Gallegos Canyon Unit No. 92 at Time of Completion (Aztec's Hagood No. 13-G)	1850 feet
Area of Circle with Radius of 1835 feet	246 acres
Area of Pressure Interference	246 acres

BEFORE EXAMINER NUTTER OIL CONSERVATION COMMISSION CASE NO. 2184 (3-7-62)

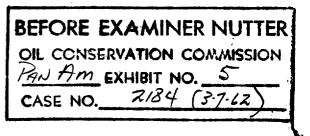
	Totah Gallup Field	Cha Cha Gallup Field
Original Reservoir Pressure, psig	1623	1560
Reservoir Temperature, °F.	155	158
Saturation Pressure, psig	1463	1560
Solution Gas-Oil Ratio, Cu. Ft./Bbl.	615	649
Formation Volume Factor	1.377	1.392
Crude Viscosity At Bubble Point Pressure, cp.	0.470	0.415
Average Crude Gravity, <sup>O</sup> API	41.0	43.0
Producing Mechanism	Solution Gas Drive	Solution Gas Drive
Average Porosity, %	14.33	15.0
Average Permeability, Md.	143.2	53.7
Average Water Saturation, %	20.0	30.0
Average Net Pay Thickness, Ft.	5.2	6.5
Type Accumulation	Sand Bar	Sand Bar

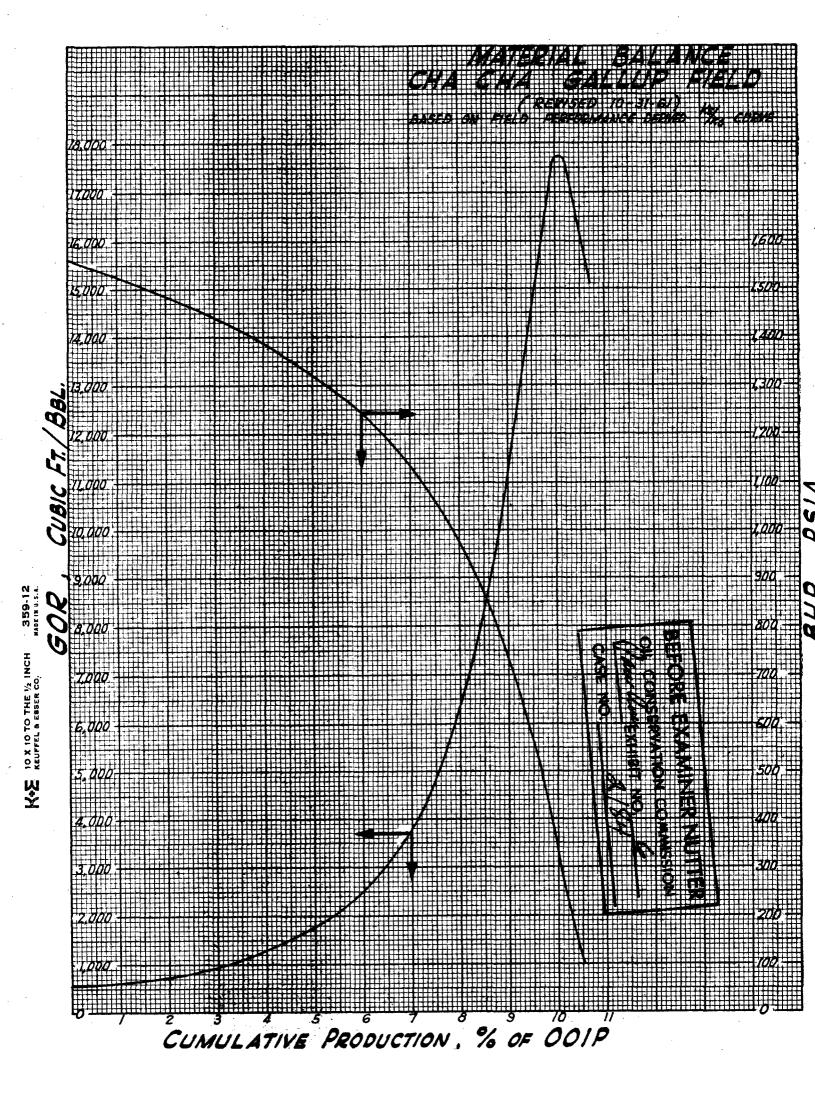
#### COMPARISON OF PERTINENT RESERVOIR DATA TOTAH GALLUP AND CHA CHA GALLUP POOLS SAN JUAN COUNTY, NEW MEXICO

BEFORE EXAMINER NUTTER OIL CONSERVATION COMMISSION  $P_{AN} Am$  EXHIBIT NO. 4 CASE NO. 2184 (3.7.62) CASE NO.\_\_\_

# ECONOMIC ANALYSIS - 40 ACRE DEVELOPMENT AVERAGE WELL IN TOTAH GALLUP POOL SAN JUAN COUNTY, NEW MEXICO

ECONOMIC ANALYSIS - 40 ACRE DEVELOPMENT AVERAGE WELL IN TOTAH GALLUP POOL SAN JUAN COUNTY, NEW MEXICO	7.9 feet 40 acres 70 22,100
Average Net Effective Pay (Engr. Commaittee Est.)	7.9 feet
Acres	40 acres
Reserves, Bbls./acft.	70 Na 1
Barrels Per Acre	553
Barrels Per 40 Acres	22,100
Net Reserves To Working Interest, Bbls.	19,300
Value Of Barrel Of Oil, Gross value \$2.75 less .05 pipeline gathering charge	\$2.70
Gross Income From Reserves	\$52,300
Less Taxes At 6.7% (Engr. Committee Est.)	\$3,500
Less Operating Costs, 3 yrs. at \$150/mo.	\$5,400
Net Income From Operations	\$43,300
Well Cost (Engr. Committee Est.)	\$52,400
Lease & Well Equipment Cost	\$13,000
Total Well & Lease Equipment Cost	\$65,400
Net Loss on Well	(\$21,100)





#### TOTAL GALLUP FIELD

#### Tennese Gil Company, Caller Lease BHP BATA

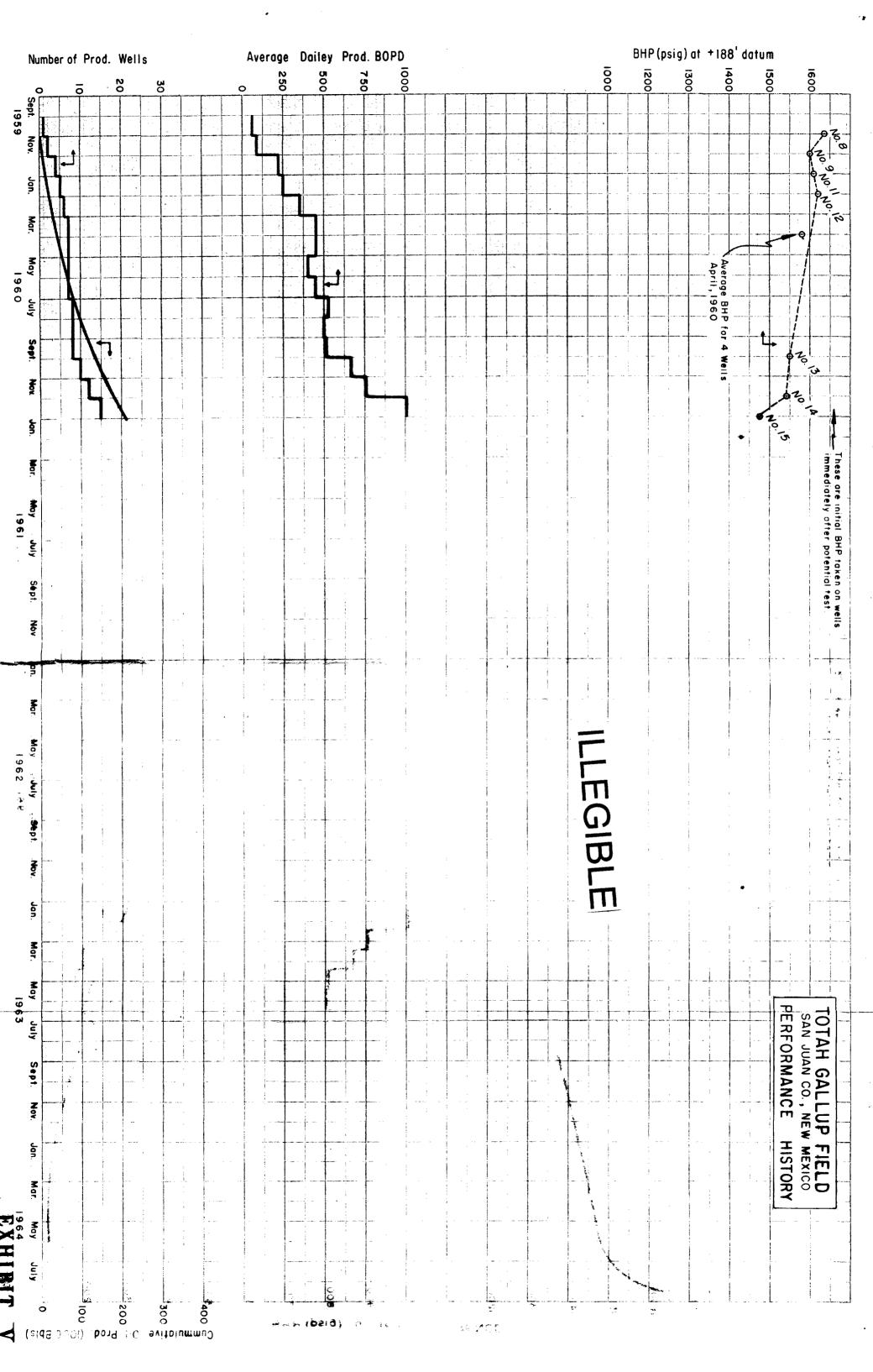
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Callow	9	12-1-59 3-31-60 9-1-60	72 182 112	1603 * 1564 1943
Callow	11	1-3-60 4-5-60 10-31-60 6-3-61	116 93 1 <b>558</b>	1608 + 1988 - <del>1</del> 968 1343
Caller	12	<b>2-26-</b> 60 <b>4-5-60</b>	72 96	1683 + 1594
Caller	13	10-10-60 6-4-61 12-8-61	78 — 72 124 —	<b>1552 +</b> 1370 763
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Callow	18	4-7-61 6-4-61	75 75	1469 <b>*</b> 1 <b>328</b>

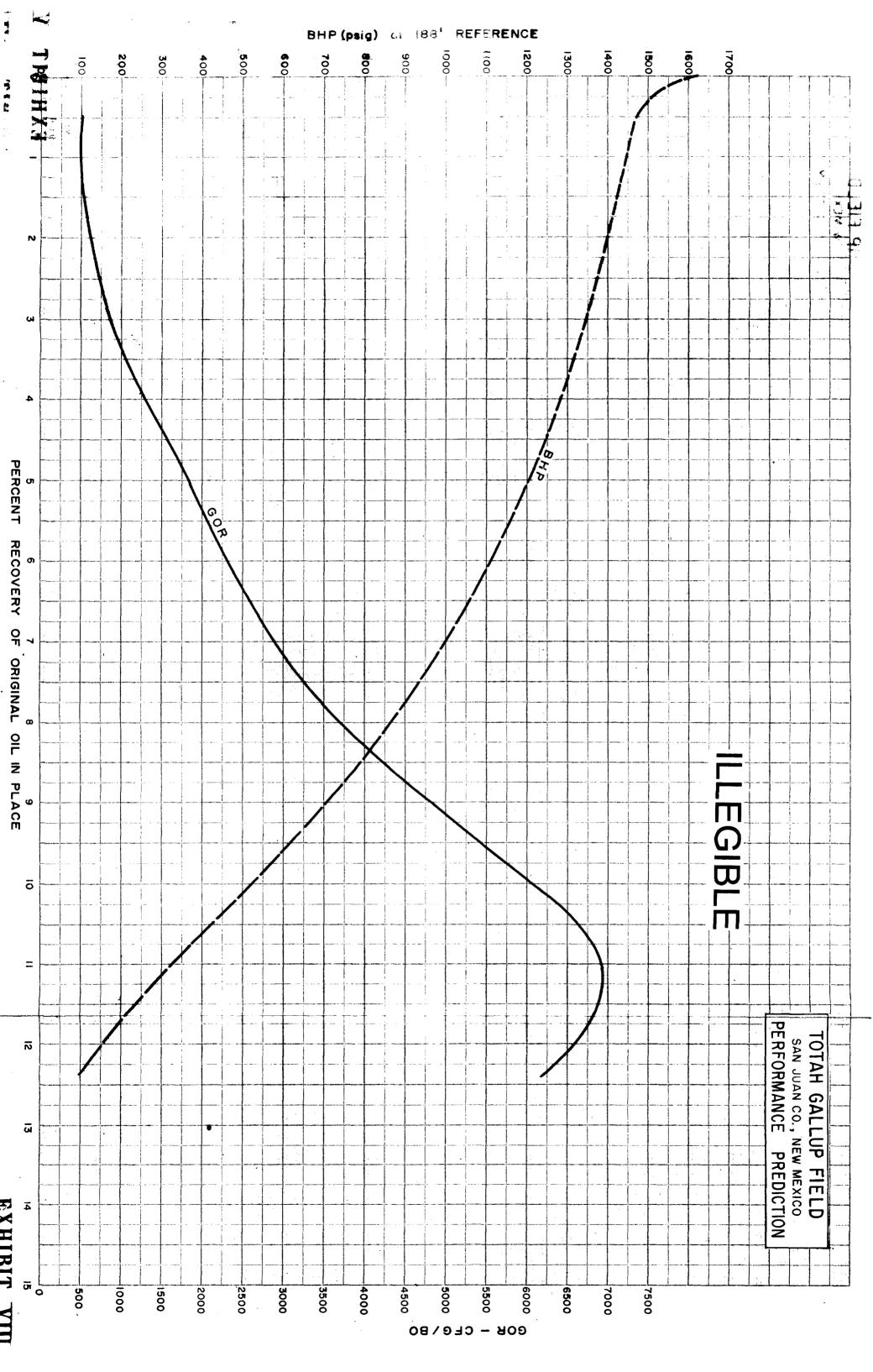
\* Initial BHP, well shut in immediately after potential test.

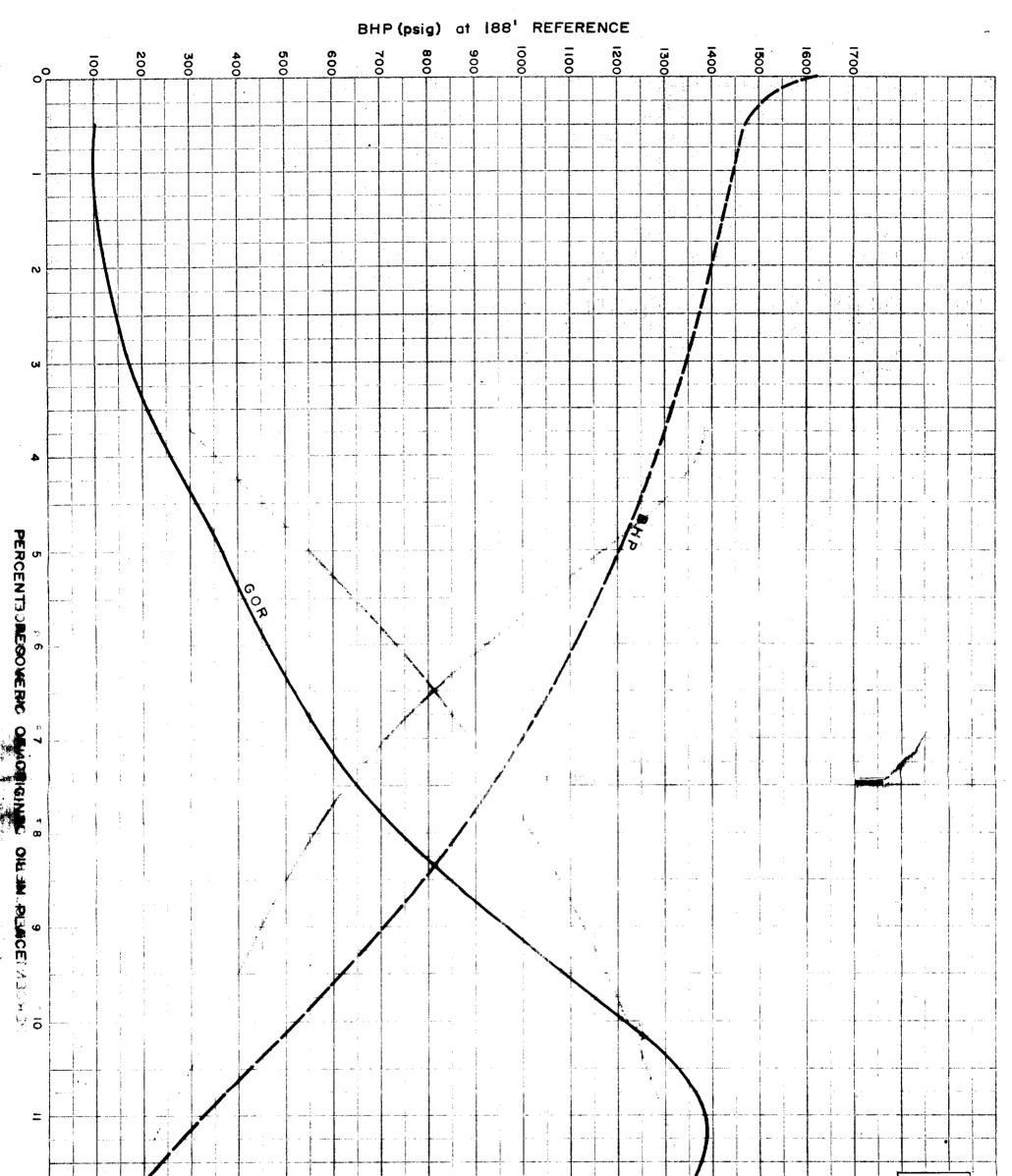
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BEFORE EXAMINER NUTTER
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CASE NO. 2184

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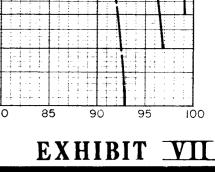


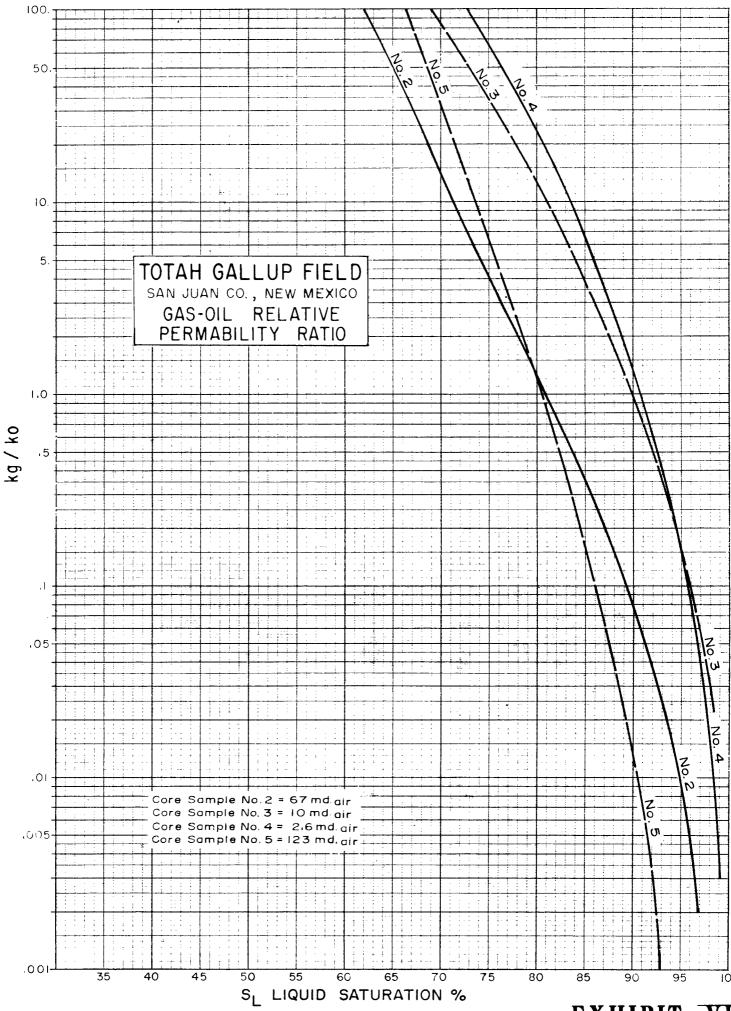
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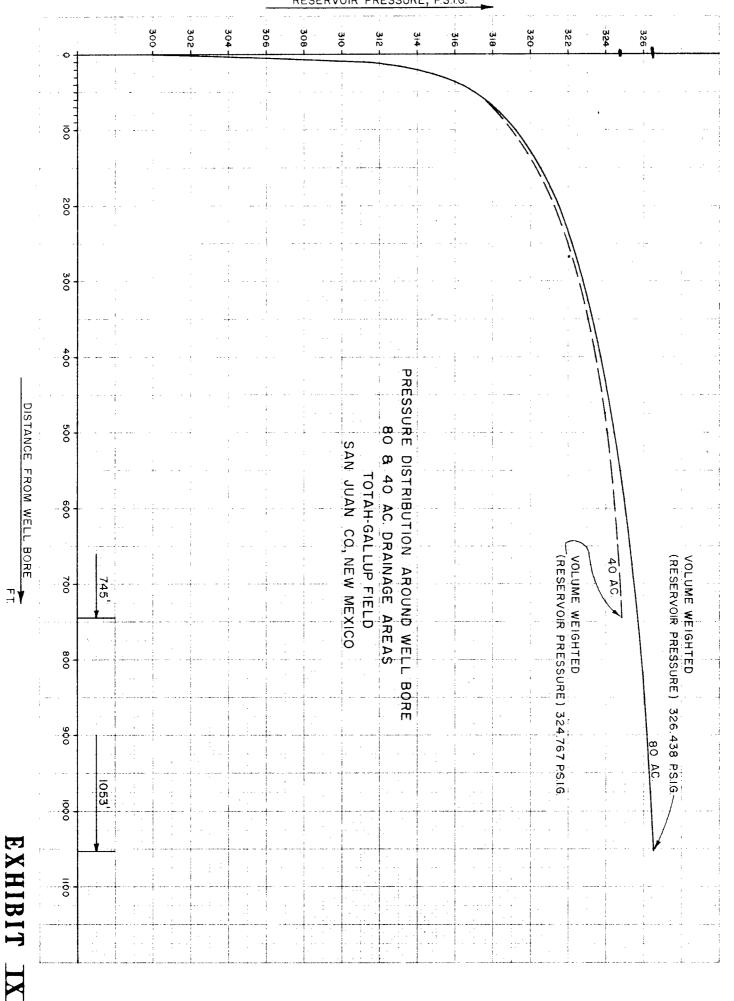
#### TOTAH GALLUP FIELD - BOTTOM HOLE PRESSURES

			SHUT-IN PRIOR TO BHP TEST	BHP AT 188' DATUM	
LEASE	WELL.	DATE	HRS.	PSIG	
Callow	8	9/3/59 3/31/60	134 96	1634 <b>*</b> 1548	
Callow	9	12/1/59 3/31/60 9/1/60	72 122 112	1603* 1564 1543	
Callow	11	1/3/60 4/5/60 10/31/60	116 93 1558	1608* 1582 1562	
Callow	12	2/26/60 4/5/60	7 <b>2</b> %	1623 <b>*</b> 1594	
Callow	13	10/10/60	78	1552*	
Callow	14	12/4/60	72	1537 <del>*</del>	
Callow	15	1/8/61	72	1473*	

\* Initial BHP taken immediately after potential test







RESERVOIR PRESSURE, P.S.I.G.