Form C-122
Revised 9-1-65

NE[illegible]EXICO OIL CONSERVATION COMMSS[illegible]
MULTIPOINT AND ONE POINT BACK PRESSURE TEST [illegible]OR GAS WELL

DUPLICATE

AUG [illegible] '66

Type Test: [X] Initial	[ ] Annual	[ ] Special	Test Date: 8-19-66

Field	Value
Company	TEXAS PACIFIC OIL CO.
Connection	NONE
Pool	UNDESIGNATED
Formation	DEVONIAN
Unit	
Completion Date	8-19-66
Total Depth	12940'
Plug Back TD	–
Elevation	4160'KB
Farm or Lease Name	WEST RANGER UNIT
Csg. Size	[illegible] 1/2
Wt.	11.6 / 13.5
d	4.000 / 3.920
Set At	12907'
Perforations	OPEN HOLE From 12907' To 12940'
Well No.	2
Tbg. Size	2 3/8
Wt.	4.7
d	1.995
Set At	12936'
Perforations	OPEN ENDED From To
Unit / Sec. / Twp. / Rge.	K / 23 / 12S / 34E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple	SINGLE
Packer Set At	NONE
County	LEA
Producing Thru	TUBING
Reservoir Temp. °F	202 @ 12924
Mean Annual Temp. °F	–
Baro. Press. – P_a	13.2
State	NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12924	–	.682	1.91	3.05	0.00	–	4.026	FLANGE

	FLOW DATA						TUBING DATA		CASING DATA		
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							[illegible]657	7[illegible]	3279	76	109
1.	[illegible]	x	1 18/64	765	96	66	1382	81	1785	81	1.0
2.	[illegible]	x	1 17/64	765	84	62	1537	85	1940	85	1.0
3.	[illegible]	x	1 16/64	765	70	59	1657	80	2071	80	1.0
4.	[illegible]	x	1 15/64	770	60	58	1777	80	2215	80	1.0
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	4.753	273.33	778.2	.99[illegible]	1.[illegible]	1.079	1687.9
2.	4.753	255.67	778.2	.99[illegible]	[illegible]	1.081	1587.[illegible]
3.	4.753	233.41	778.2	1.00[illegible]	[illegible]	1.084	1457.8
4.	4.753	216.78	783.2	[illegible]	[illegible]	1.085	1356.5
5.							

NO.	P_r	Temp. °R	T_r	Z
1	1.16	526	1.41	0.859
2.	1.16	522	1.40	0.855
3.	1.16	519	1.39	0.85[illegible]
4.	1.17	518	1.39	[illegible]
5.				

Gas Liquid Hydrocarbon Ratio ________ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ________ Deg.
Specific Gravity Separator Gas ________ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX –
Critical Pressure ________ P.S.I.A. – P.S.I.A.
Critical Temperature [illegible] R – R

P_c 4950.2 P_c^2 24504.5*

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2736.2	7[illegible]	[illegible]
2		2978.2	[illegible]	[illegible]
3		3185.[illegible]	[illegible]	[illegible]
4		3407.[illegible]	1[illegible].0	12[illegible]
5				

$$(1)\ \frac{P_c^2}{P_c^2 - P_w^2} = \_\_\_\_\_\_$$

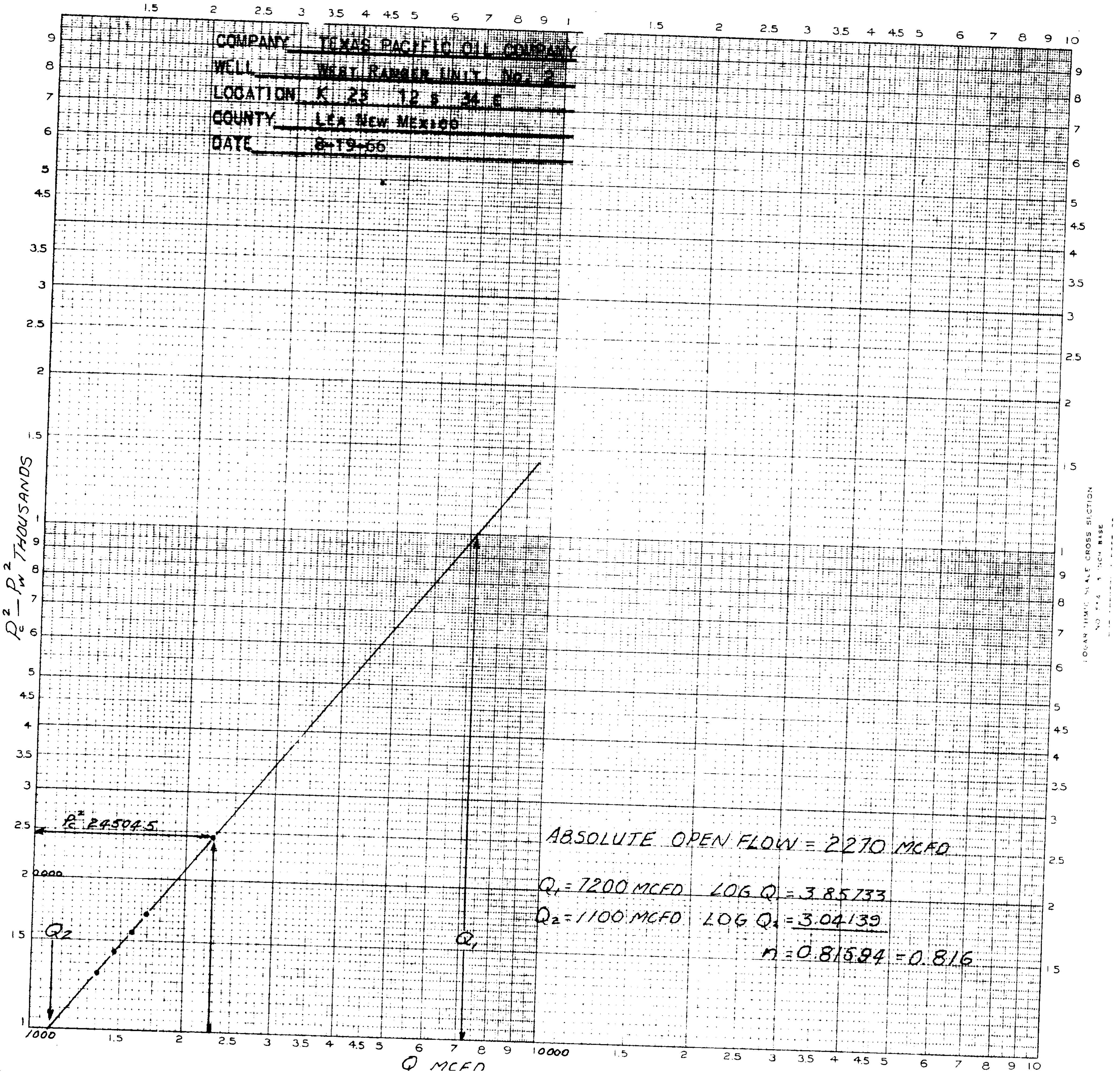
$$(2)\ \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.347$$

$$AOF = Q\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = \_\_\_\_\_\_$$

Absolute Open Flow [illegible]270 Mcfd @ 15.025 Angle of Slope θ ________ Slope, n [illegible]

Remarks: * BHF [illegible]
(-[illegible]) [illegible]

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	COL[illegible] ENG.	Joe A. Coleman (signature)	[illegible] COLEMAN


COMPANY TEXAS PACIFIC OIL COMPANY
WELL West Ranger Unit No. 2
LOCATION K 23 12 S 34 E
COUNTY Lea New Mexico
DATE 8-19-66
$P_c^2 - P_w^2$ THOUSANDS
Q MCFD
P_c^2 24504.5
Q2
Q1
ABSOLUTE OPEN FLOW = 2270 MCFD
Q1 = 7200 MCFD LOG Q1 = 3.85733
Q2 = 1100 MCFD LOG Q2 = 3.04139
n = 0.81594 = 0.816