

Flow Time	1st Min. 30	2nd Min. 120	Date	8-19-66	Ticket Number	459186 - S
Closed In Press. Time	1st Min. 30	2nd Min. 45	Kind of Job	OPEN HOLE	Halliburton District	PRATT
Pressure Readings	Field	Office Corrected	Tester	MR. CLINE	Witness	MR. HILL
Depth Top Gauge	3544 Ft.	NO Blanked Off	Drilling Contractor	COMPANY TOOLS		IC SS
BT. P.R.D. No.	1831	12 Hour Clock	Elevation	1484' K.B.	Top Packer	3537'
Initial Hydro Mud Pressure	1883	1852	Total Depth	3556'	Bottom Packer	3542'
Initial Closed in Pres.	1433	1440	Interval Tested	3542'-3556'	Formation Tested	KANSAS CITY
Initial Flow Pres.	9 1 55	14 2 70	Casing or Hole Size	7 7/8"	Casing } Top	
Final Flow Pres.	55 1 204	61 2 212	Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	1433	1434	Size & Kind Drill Pipe	4 1/2" F.H.	Drill Collars Above Tester	I.D. - LENGTH 2 1/4" x 180'
Final Hydro Mud Pressure	1864	1831	Mud Weight	9.7	Mud Viscosity	36
Depth Cen. Gauge		Blanked Off	Temperature	3550' @ 118 °F Est. °F Actual	Anchor Size ID & Length OD	3.87" X 5.00" X 14'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHINGS	Depth of Tester Valve	3530' Ft.
Initial Hydro Mud Pres.			TYPE AMOUNT		Depth Back Pres. Valve	- Ft.
Initial Closed in Pres.			Cushion	- Ft.		
Initial Flow Pres.	1		Recovered	130 Feet of	Muddy water	
Final Flow Pres.	2		Recovered	400 Feet of	Water	
Final Closed in Pres.	1		Recovered	Feet of		
Final Hydro Mud Pres.	2		Recovered	Feet of		
Depth Bot. Gauge	3552 Ft.	NO Blanked Off	Oil A.P.I. Gravity	-	Water Spec. Gravity	-
BT. P.R.D. No.	1830	12 Hour Clock	Gas Gravity	-	Surface Pressure	- psi
Initial Hydro Mud Pres.	1899	1860	Tool Opened	5:08 PM A.M. P.M.	Tool Closed	8:53 PM A.M. P.M.
Initial Closed in Pres.	1441	1443	Remarks	Opened tool for 30 minute 1st flow. Closed tool for 30 minute initial cbased in pressure.		
Initial Flow Pres.	18 1 56	19 2 72		Reopened tool for 120 minute 2nd flow with a weak blow throughout test. Closed tool for 45 minute final cbased in pressure.		
Final Flow Pres.	56 1 205	67 2 215				
Final Closed in Pres.	1441	1435				
Final Hydro Mud Pres.	1862	1835				

FORMATION TEST DATA

Legal Location Sec. 29 - 28S - 6W C/SE/SE Field Area WILDCAT County KINGMAN State KANSAS

Lease Name Well No. Test No. Lease Owner/Company Name CSE SE Sec. 29-28S-6W Owner's District

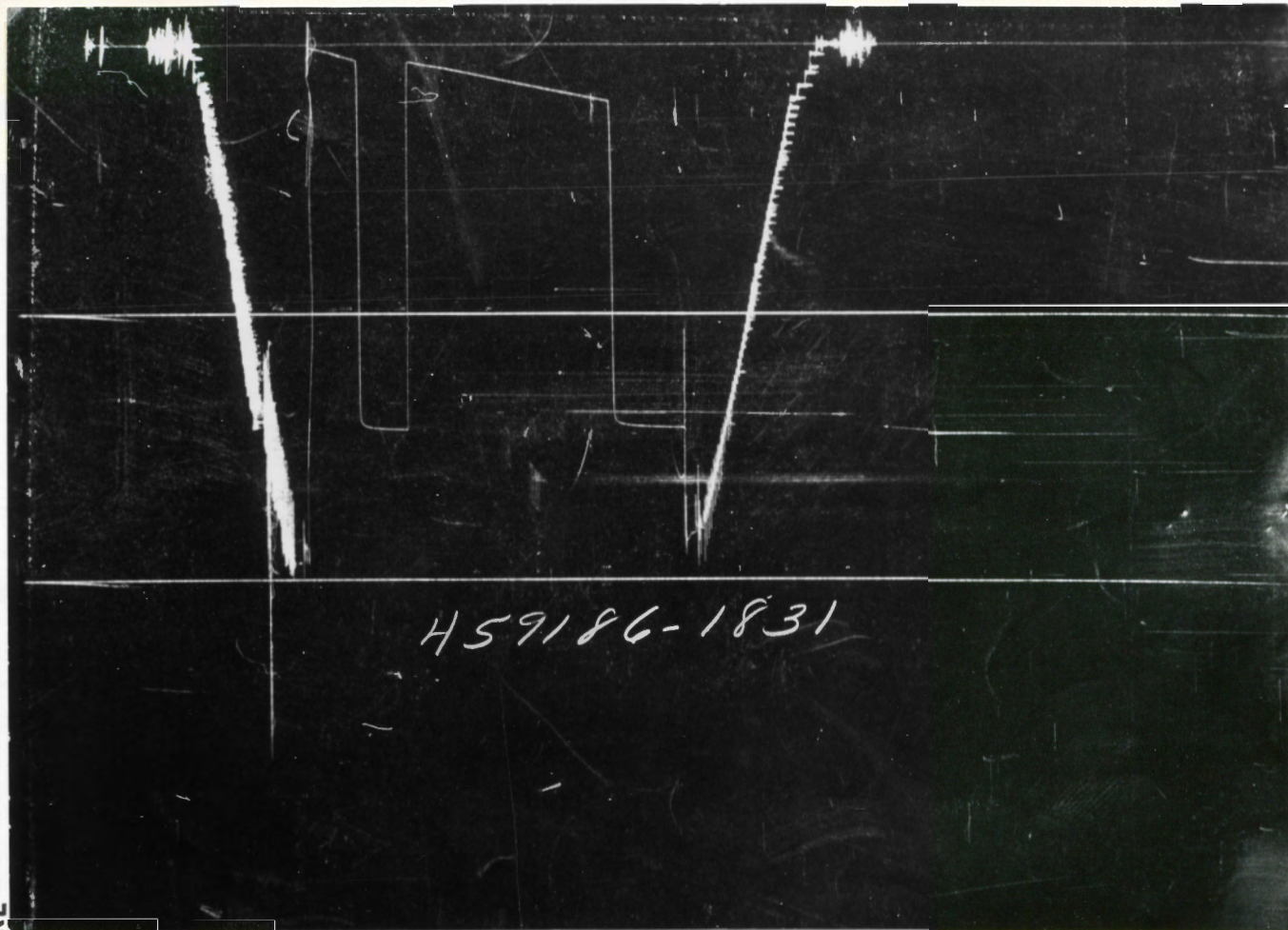
Gauge No. 1831			Depth 3544'			Clock 12 hour		Ticket No. 459186		
First Flow Period			Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \bullet}{\bullet}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \bullet}{\bullet}$	PSIG Temp. Corr.
P ₀	.000	14	.000		61	.000	70	.000		212
P ₁	.0392	20	.021		1400	.1360	88	.0337		1411
P ₂	.0784	29	.042		1427	.2720	114	.0674		1423
P ₃	.1176	40	.063		1433	.4080	140	.1011		1426
P ₄	.1568	51	.084		1436	.5440	164	.1348		1429
P ₅	.196	61	.105		1437	.6800	188	.1685		1430
P ₆			.126		1438	.816	212	.2022		1432
P ₇			.147		1439			.2359		1432
P ₈			.168		1440			.2696		1433
P ₉			.189		1440			.303		1434
P ₁₀			.210		1440					

Gauge No.			1830			Depth			3552'			Clock			12			hour		
P ₀	.000	19	.000		67	.000	72	.000		215										
P ₁	.0394	28	.0213		1382	.1358	93	.0340		1412										
P ₂	.0788	35	.0426		1430	.2716	118	.0680		1425										
P ₃	.1182	46	.0639		1436	.4074	144	.1020		1428										
P ₄	.1576	57	.0852		1439	.5432	168	.1360		1430										
P ₅	.197	67	.1065		1439	.6790	191	.1700		1432										
P ₆			.1278		1441	.815	215	.2640		1433										
P ₇			.1491		1442			.2380		1434										
P ₈			.1704		1443			.2720		1435										
P ₉			.1917		1443			.3060		1435										
P ₁₀			.213		1443															
Reading Interval			6			3			20			5			Minutes					

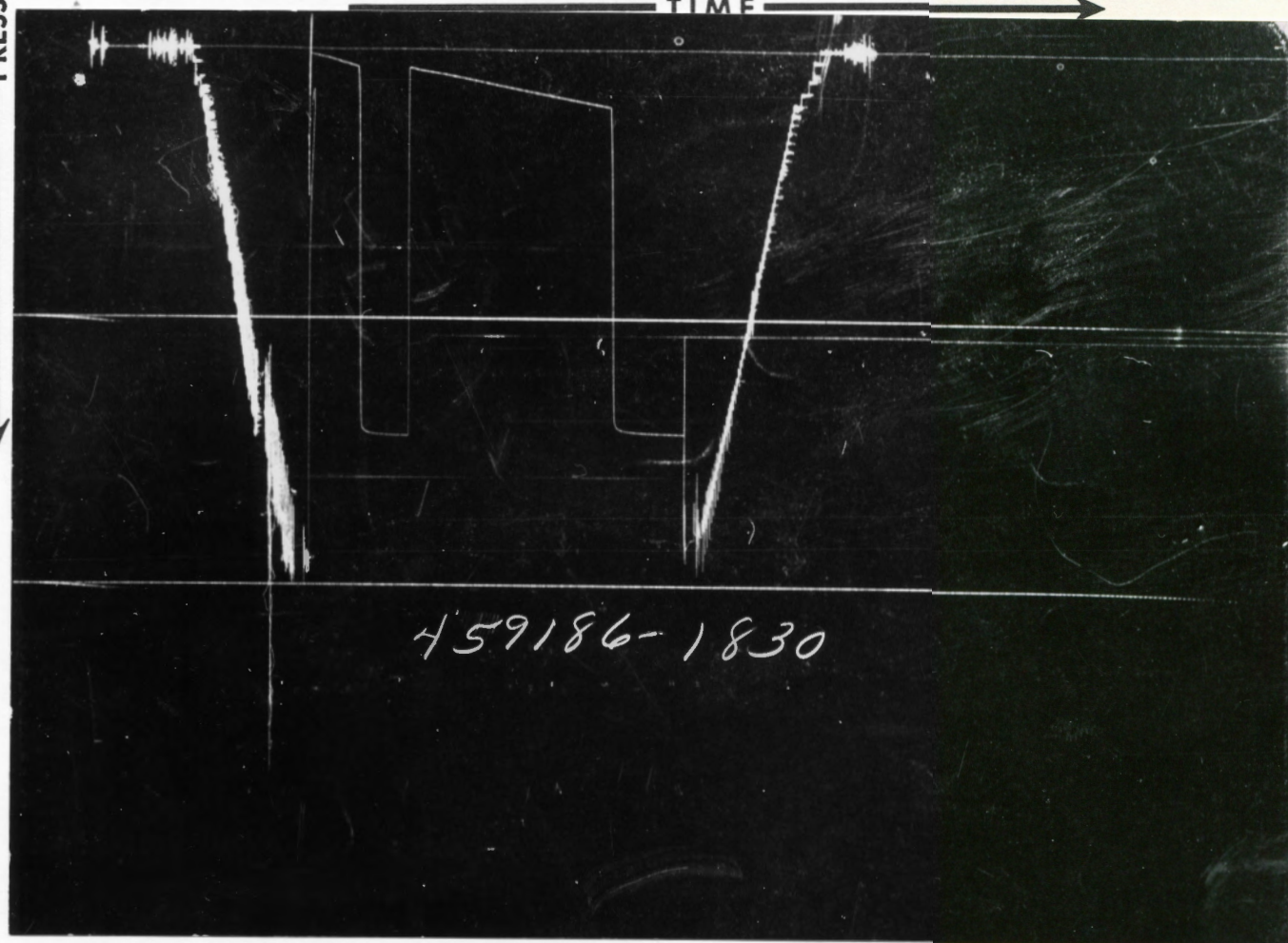
REMARKS:

SPECIAL PRESSURE DATA

PRESSURE
↓



TIME
→



Each Horizontal Line Equal to 1000 p.s.i.

A circular target with concentric rings. The target is dark with light-colored rings. In the lower right quadrant, the number '452186' is handwritten in white. Below it, the number '118°' is handwritten in white. The target is mounted on a dark background.

452186
118

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b₁	= Approximate Radius of Investigation (Net Pay Zone h ₁)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h₁	= Net Pay Thickness	Feet
K	= Permeability	md
K₁	= Permeability (From Net Pay Zone h ₁)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF₁	= Maximum Indicated Flow Rate	MCF/D
OF₂	= Minimum Indicated Flow Rate	MCF/D
OF₃	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF₄	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{or}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q₁	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.