

VACHUTA
LEASE NAME1
WELL NO.1
TEST NO.TWIN DRILLING COMPANY
LEASE OWNERWICHITA, KANSAS
OWNERS DISTRICT

Initial Closed In Time 15 Minutes			Date 11-29-59	
Tool Open Flow Period 1st 5 / 2nd 60 Minutes			Ticket No. 186884	
Final Closed In Time 20 Minutes			HOWCO DISTRICT HILL CITY, KANSAS	
Depth Top Gauge 4027 Ft. Blanked Off No		Kind of Job OPEN HOLE		
BT. P.R.D. No 373 12 Hr. Clock		CONTRACTOR K & E DRILLING COMPANY		
Pressure Readings Field Office Corrected		HOLE & TOOL DATA		
Initial Hydro Mud Pressure 2140 2141		Elevation - Top Packer Depth 4016'		
Initial Closed in Pres. 1240 1248		Total Depth 4200' Bottom Packer Depth 4021'		
Initial Flow Pres. 103 39-118		Casing or Hole Size 7 7/8" Size & Type Wall Packer 2-63/4"E.S.W.P.		
Final Flow Pres. 570 110-589		Liner or Rathole Size 7 7/8" Size Bottom Choke 5/8"		
Final Closed in Pres. 1170 1157		Casing Perforations Top Bottom Size Surface Choke 1"		
Final Hydro Mud Pressure 2105 2124		Interval Tested 4021'-4200' ID & Length Air Chamber -		
Depth Center Gauge 4195 Ft. Blanked Off Yes		Formation Tested TOPEKA ID & Length Drill Collars -		
BT. P.R.D. No 1728 12 Hr. Clock		Est. Gauge Depth Temp. Actual 102 F° Size Drill Pipe 1 1/2		
Pressure Readings Field Office Corrected		MUD DATA Weight 9.9 Viscosity 44		
Initial Hydro Mud Pressure		All depths measured from KELLY BUSHING No...Folders Reproduced 5		
Initial Closed in Pres.		REMARKS: Opened tool for 5 minute first flow.		
Initial Flow Pres.		Closed tool for 15 minute initial closed in		
Final Flow Pres.		pressure. Re-opened tool with fair blow		
Final Closed in Pres.		which continued throughout test. Took 20		
Final Hydro Mud Pressure		minute final closed in pressure.		
Depth Bottom Gauge Ft. Blanked Off				
BT. P.R.D. No Hr. Clock				
Pressure Readings Field Office Corrected				
Initial Hydro Mud Pressure				
Initial Closed in Pres.		Recovered 1042 Feet of Muddy Salt Water with Trace of Oil		
Initial Flow Pres.		Recovered Feet of		
Final Flow Pres.		Recovered Feet of		
Final Closed in Pres.		Recovered Feet of		
Final Hydro Mud Pressure		Witnessed By TOBY EDSTER		
Amount-Type of Cushion None		Tester N. N. DREILING		

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PRESSURE
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A—In
B—In
C—Fi
D—Cl
E—Fi

HOWCO

Company TWIN DRILLING COMPANY

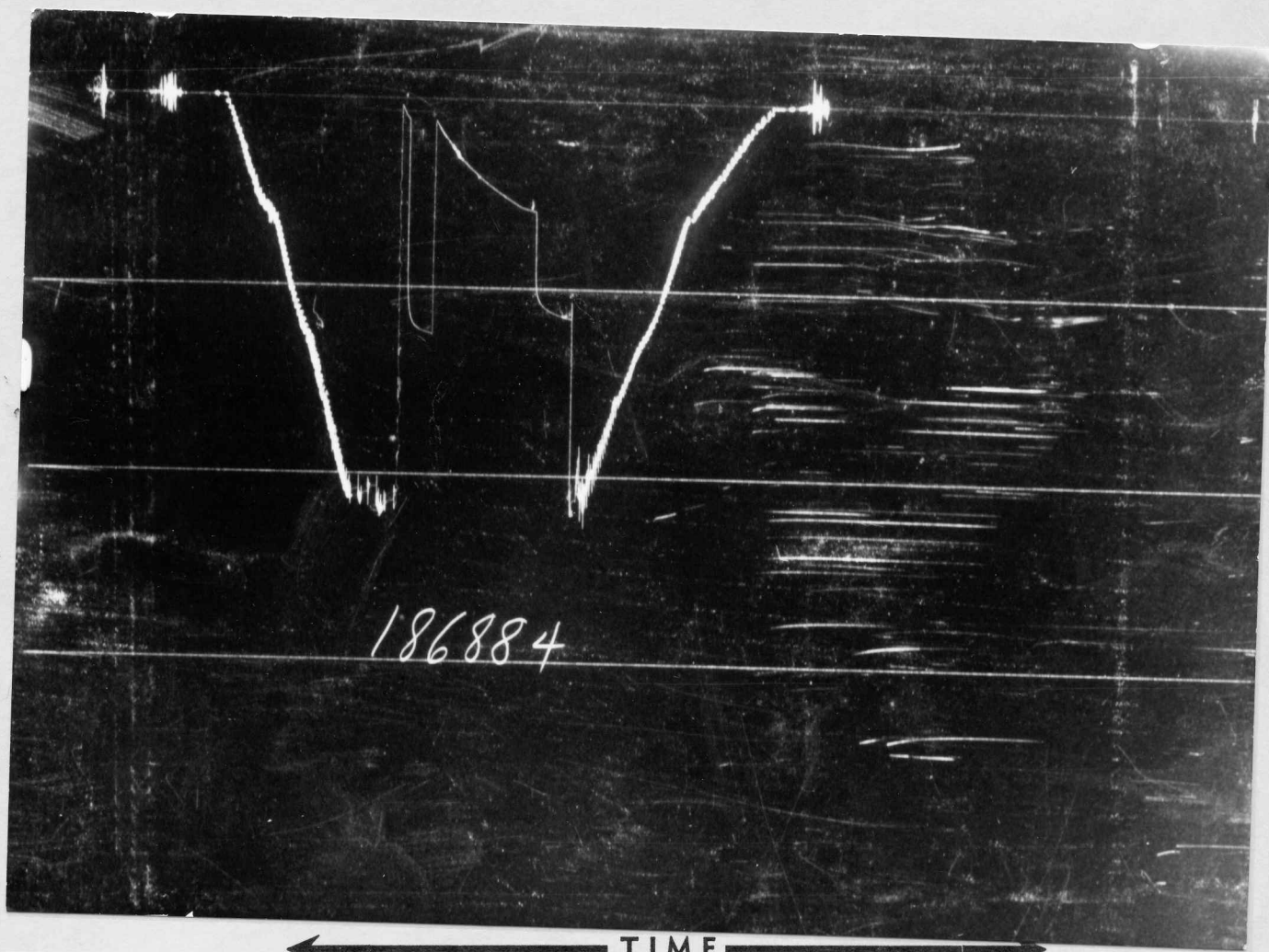
Date 11-29-59

	Time	PSI	
Initial Hydro Mud Pressure		2141	Ticket No. 186884
1st	Initial Flow	39	
	Final Flow 5 Minutes	110	Lease VACHUTA
Initial Closed In Pressure	15 Minutes	1248	Well No. 1 Test No. 1
2nd	Initial Flow	118	BT No. 373 Depth 4027'
	Final Flow 60 Minutes	589	12 Hr. Clock No. 1735
Final Closed In Pressure	20 Minutes	1157	Temperature Corrected to Actual 102 ° F
Final Hydro Mud Pressure		2124	

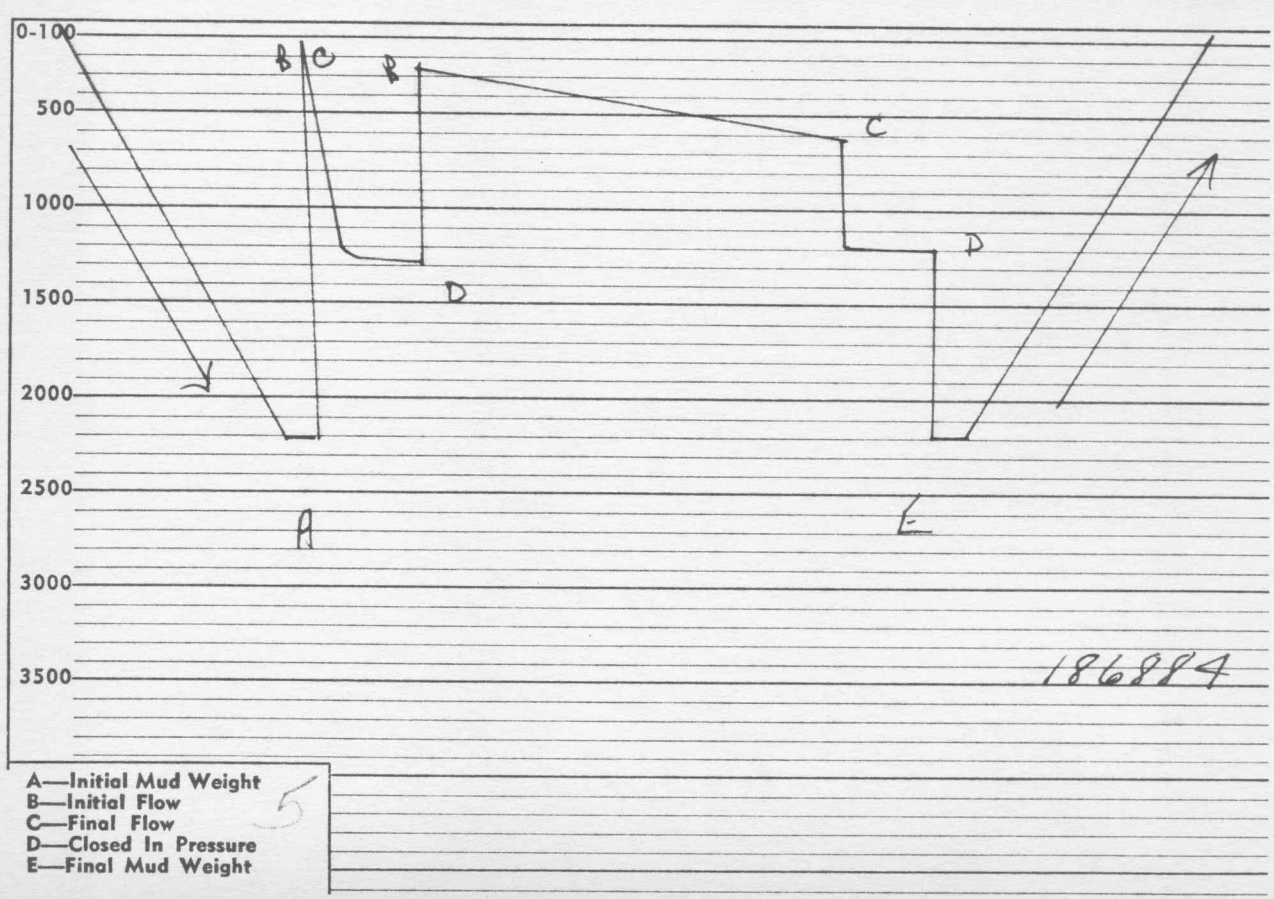
	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.
PO	.000	39	.000	110	.000	118	.000	589
P1	.006	52	.0105	1115	.105	313	.0155	1050
P2	.012	71	.021	1176	.210	439	.031	1086
P3	.018	87	.0315	1201	.315	534	.0465	1104
P4	.024	99	.042	1214	.420	589	.062	1117
P5	.030	110	.0525	1223			.0775	1128
P6			.063	1230			.093	1136
P7			.0735	1235			.1085	1142
P8			.084	1239			.124	1148
P9			.0945	1243			.1395	1153
P10			.105	1248			.155	1157
	1 Minute Intervals		1.5 Minute Intervals		15 Minute Intervals		2 Minute Intervals	

Remarks:

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PRESSURE
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← TIME →



HOWCO 1383—LITTLE'S 59248 5M 5/59

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

Initial Closed In Time		15 Minutes			Date 11-30-59	
Tool Open Flow Period		1st 5	2nd 60 Minutes		Ticket No. 186885	
Final Closed In Time		20 Minutes			HOWCO DISTRICT HILL CITY, KANSAS	
Depth Top Gauge		4257	Ft.	Blanked Off	No	Kind of Job OPEN HOLE
BT. P.R.D. No		373		CONTRACTOR K & E DRILLING RIG #1		
Pressure Readings		Field		HOLE & TOOL DATA		
Initial Hydro Mud Pressure		2205		Elevation - Top Packer Depth 4246'		
Initial Closed in Pres.		700		Total Depth 4343' Bottom Packer Depth 4251'		
Initial Flow Pres.		0		Casing or Hole Size 7 7/8" Size & Type Wall Packer 2-6 3/4" E.S.W.		
Final Flow Pres.		0		Liner or Rathole Size 7 7/8" Size Bottom Choke 5/8"		
Final Closed in Pres.		50		Casing Perforations Top Bottom Size Surface Choke 1"		
Final Hydro Mud Pressure		2205		Interval Tested 4251'-4343' ID & Length Air Chamber -		
Depth Center Gauge		4338		Ft.	Blanked Off	Yes
BT. P.R.D. No		1728		12 Hr. Clock		
Pressure Readings		Field		Office Corrected		
Initial Hydro Mud Pressure					Formation Tested KANSAS CITY ID & Length Drill Collars -	
Initial Closed in Pres.					Est. Gauge Depth Temp. Actual 103 F° Size Drill Pipe 1 1/2"	
Initial Flow Pres.					MUD DATA Weight 9.6 Viscosity 48	
Final Flow Pres.					All depths measured from KELLY BUSHING No...Folders Reproduced 5	
Final Closed in Pres.					REMARKS: Opened tool for 5 minute first flow.	
Final Hydro Mud Pressure					Closed tool for 15 minute initial closed in	
					pressure. Re-opened tool with weak blow	
					which died in 13 minutes. Took 20 minute	
					final closed in pressure.	
Depth Bottom Gauge		Ft.		Blanked Off		
BT. P.R.D. No				Hr. Clock		
Pressure Readings		Field		Office Corrected		
Initial Hydro Mud Pressure						
Initial Closed in Pres.				Recovered 30 Feet of Mud with trace of Oil		
Initial Flow Pres.				Recovered Feet of		
Final Flow Pres.				Recovered Feet of		
Final Closed in Pres.				Recovered Feet of		
Final Hydro Mud Pressure				Witnessed By TOBY ELSTER		
Amount-Type of Cushion		None		Tester N. N. DREILING		

VACUTTA

LEASE NAME

WELL NO.

TEST NO.

TWIN DRILLING COMPANY

LEASE OWNER

WICHITA, KANSAS

OWNERS DISTRICT

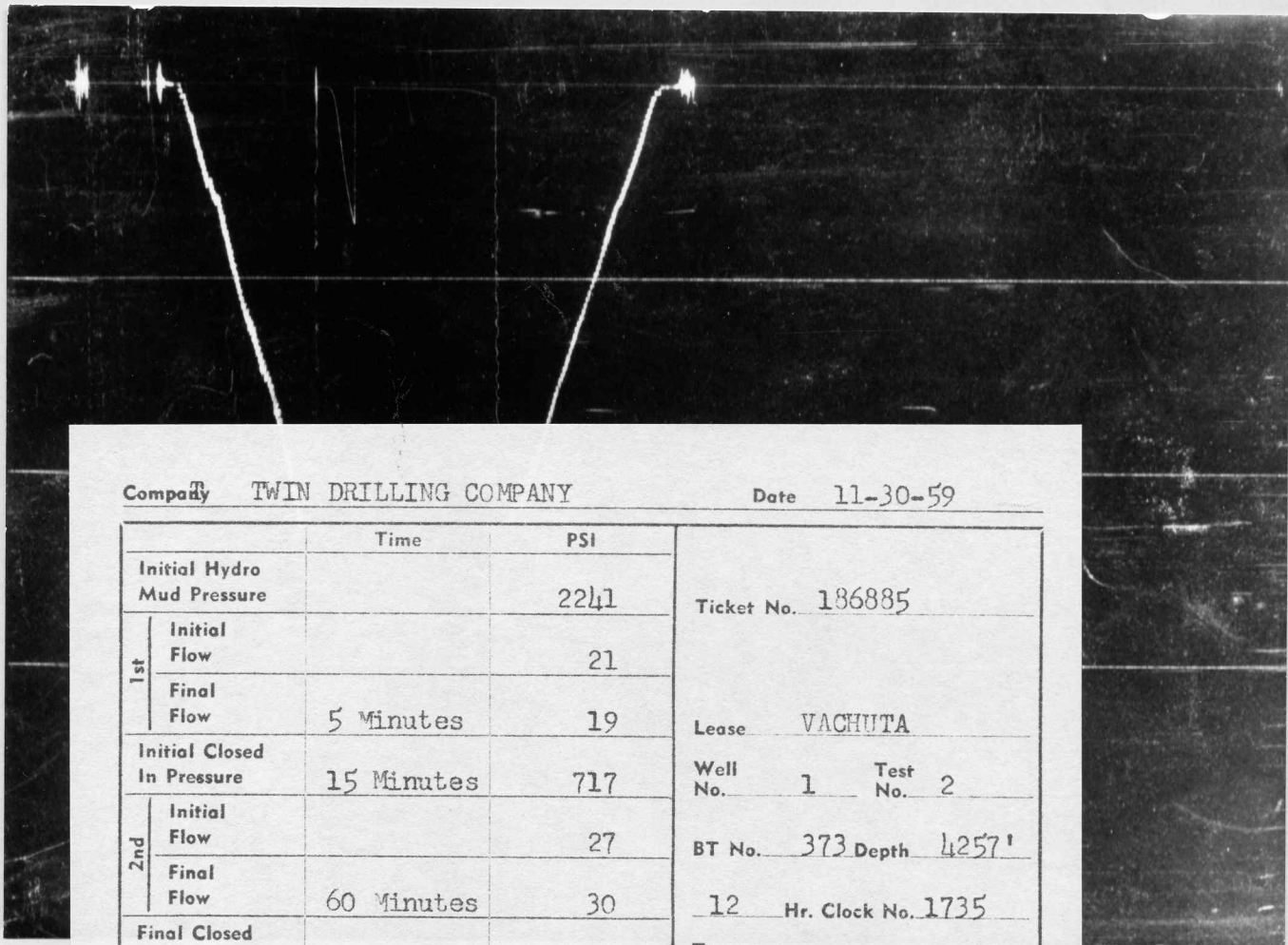
LOCATION SW SW SE Sec. 31-1-36

FIELD WILDCAT

COUNTY RAWLINS

STATE KANSAS

PRESSURE



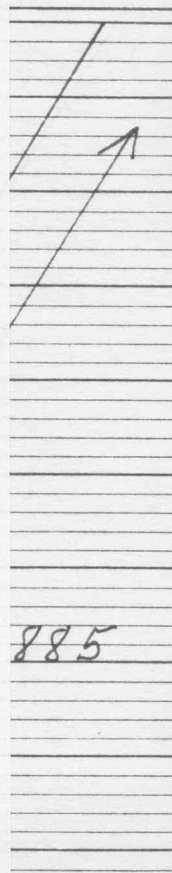
Company TWIN DRILLING COMPANY

Date 11-30-59

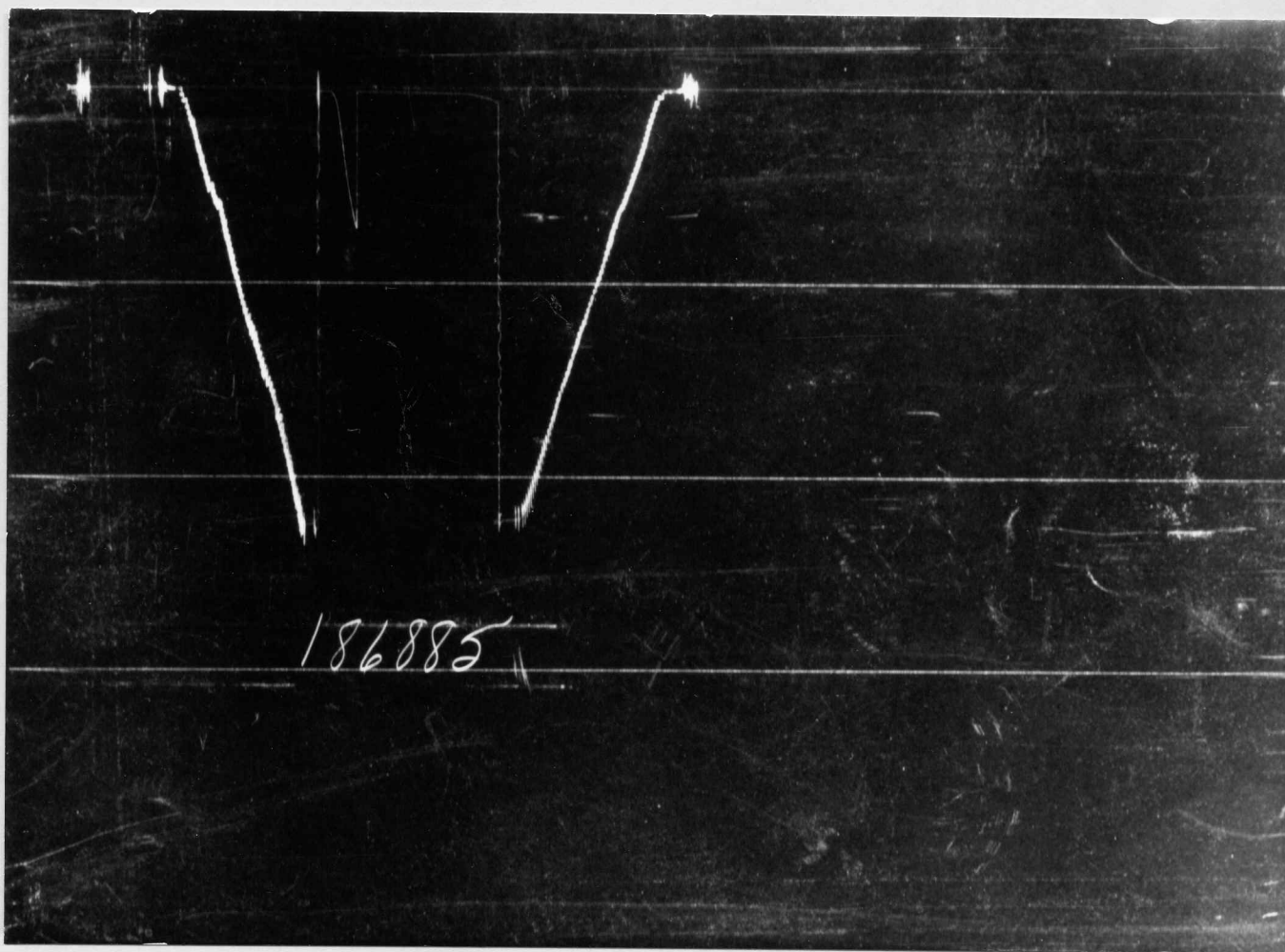
	Time	PSI	
Initial Hydro Mud Pressure		2241	Ticket No. 186885
1st	Initial Flow	21	
	Final Flow	5 Minutes 19	Lease VACHUTA
Initial Closed In Pressure	15 Minutes	717	Well No. 1 Test No. 2
2nd	Initial Flow	27	BT No. 373 Depth 4257'
	Final Flow	60 Minutes 30	12 Hr. Clock No. 1735
Final Closed In Pressure	20 Minutes	74	Temperature Corrected to Actual 103 ° F
Final Hydro Mud Pressure		2220	

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.
P0	.000	21	.000	19	.000	27		
P1	.048	19	.010	35	.435	30		
P2			.020	64				
P3			.030	119				
P4			.040	218				
P5			.050	321				
P6			.060	422				
P7			.070	508				
P8			.080	539				
P9			.090	655				
P10			.100	717				
	Minute Intervals		Minute Intervals		Minute Intervals		Minute Intervals	
	1.5		1.5		1.5		1.5	

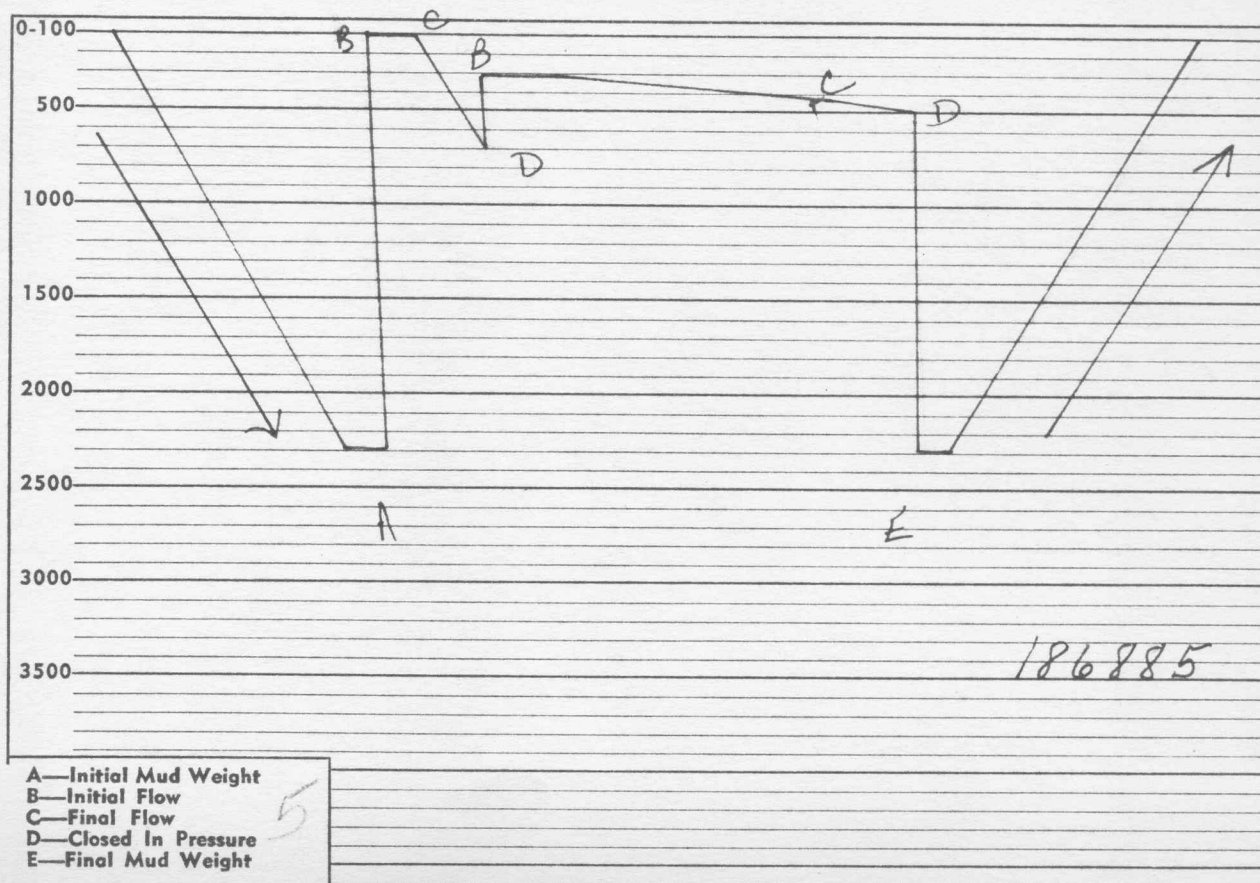
Remarks:



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PRESSURE
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HOWCO 1393—LITTLE'S 59248 5M 9/59

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

Initial Closed In Time 15 Minutes			Date 12-1-59		LOCATION SW SE Sec. 31-1-36 SN LEASE NAME WELL NO. 1 TEST NO. 3
Tool Open 1st 5 / 2nd 45 Minutes			Ticket No. 186886		
Final Closed In Time 15 Minutes			HOWCO DISTRICT HILL CITY, KANSAS Kind of Job OPEN HOLE		
Depth Top Gauge 4349 Ft.	Blanked Off NO	CONTRACTOR K & E DRILLING COMPANY			
BT. P.R.D. No 373	12 Hr. Clock	HOLE & TOOL DATA			
Pressure Readings Field	Office Corrected				
Initial Hydro Mud Pressure 2305	2293	Elevation -	Top Packer Depth 4338'		
Initial Closed in Pres. 1140	1132	Total Depth 4500'	Bottom Packer Depth 4343'		
Initial Flow Pres. 55	25-43	Casing or Hole Size 7 7/8"	Size & Type Wall Packer 2-63/4"E.S.W.P.		
Final Flow Pres. 50	32-60	Liner or Rathole Size 7 7/8"	Size Bottom Choke 5/8"		
Final Closed in Pres. 465	508	Casing Perforations Top Bottom	Size Surface Choke 1"		
Final Hydro Mud Pressure 2260	2271	Interval Tested 4343'-4500'	ID & Length Air Chamber -		
Depth Center Gauge Ft.	Blanked Off	Formation Tested KANSAS CITY	ID & Length Drill Collars -		
BT. P.R.D. No	Hr. Clock	Est. Gauge Depth Temp. Calc. 110 F°	Size Drill Pipe 4 1/2"		
Pressure Readings Field	Office Corrected	MUD DATA Weight 10	Viscosity 44		
Initial Hydro Mud Pressure No PRD run - Piston Rod		All depths measured from KELLY BUSHING	No...Folders Reproduced 5		
Initial Closed in Pres.	Broke.	REMARKS: Opened tool for 5 minute first flow.			
Initial Flow Pres.		Closed tool for 15 minute initial closed in			
Final Flow Pres.		pressure. Re-opened tool with weak blow			
Final Closed in Pres.		which died in 23 minutes. Took 15 minute			
Final Hydro Mud Pressure		final closed in pressure.			
Depth Bottom Gauge Ft.	Blanked Off	NO P.R.D. WAS RUN.			
BT. P.R.D. No	Hr. Clock				
Pressure Readings Field	Office Corrected				
Initial Hydro Mud Pressure					
Initial Closed in Pres.		Recovered 90	Feet of Very Slightly Oil Cut Mud		
Initial Flow Pres.		Recovered	Feet of		
Final Flow Pres.		Recovered	Feet of		
Final Closed in Pres.		Recovered	Feet of		
Final Hydro Mud Pressure		Witnessed By TOBY EDSTER			
Amount-Type of Cushion None		Tester N. N. DREILING			

PRESSURE

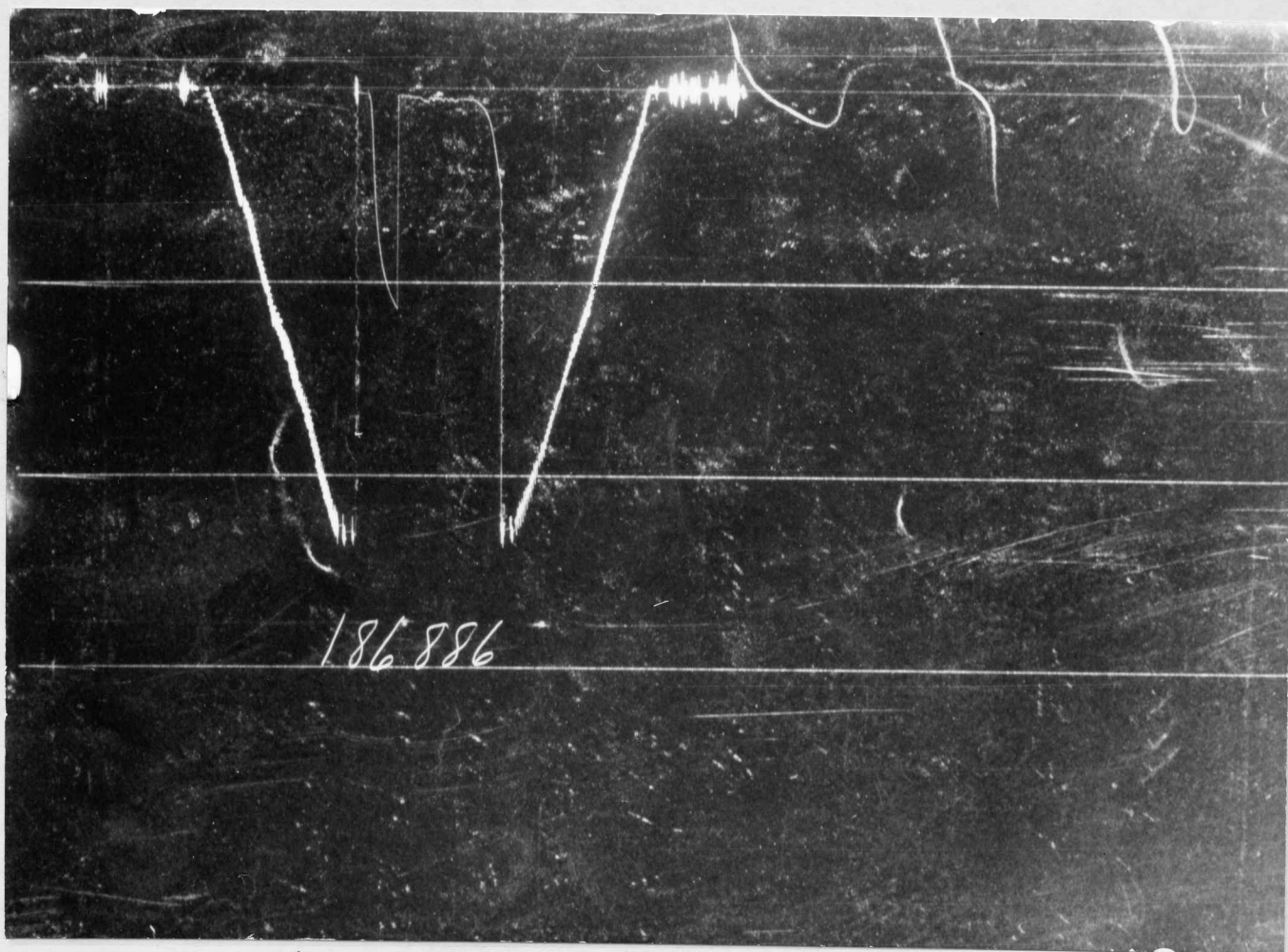
Company TWIN DRILLING COMPANY

Date 12-1-59

		Time	PSI				
Initial Hydro Mud Pressure			2293	Ticket No. <u>186886</u>			
1st	Initial Flow		25				
	Final Flow	5 Minutes	32				
Initial Closed In Pressure		15 Minutes	1132	Lease <u>VACHUTA</u>			
2nd	Initial Flow		43	Well No. <u>1</u> Test No. <u>3</u>			
	Final Flow	45 Minutes	60	BT No. <u>373</u> Depth <u>4349'</u>			
Final Closed In Pressure		15 Minutes	508	12 Hr. Clock No. <u>1735</u>			
Final Hydro Mud Pressure			2274	Temperature Corrected to <u>Calc. 110° F</u>			
		Initial CIP		2nd Flow Pressure		Final CIP	
	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"
P0	.000	25	.000	32	.000	43	
P1	.010	26	.0115	127	.300	60	
P2	.020	29	.023	451			
P3	.030	30	.0345	691			
P4	.040	31	.046	829			
P5	.050	32	.0575	918			
P6			.069	986			
P7			.0805	1034			
P8			.092	1073			
P9			.1035	1106			
P10			.115	1132			
	1	Minute Intervals	1.5	Minute Intervals	Minute Intervals	Minute Intervals	Minute Intervals

Remarks:

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PRESSURE
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Each Horizontal Line Equal to 1000 p s i