

JOHNSTON TESTERS

TEST DATA											
Formation	Tight Hole		Zone Thickness	Ft.	Elevation	2190 KB		2175 GL			
Interval	1505	To	1520	T.D.	5052	Bottom Hole Choke Size		1/2"			
Type of Test	Open Hole, Straddle, Bypass				Fluid Cushion Type						
Time Started in Hole	1200		Hrs.	Tool Open	1300		Hrs.	Amount			
First Flow	5	Min.	Shut In	30		Min.	TOOL SEQUENCE				
Second Flow	15	Min.	Final Shut In	0		Min.	Tool	Length	O.D.		
Pulled Loose @	1430	Hrs.	Out of Hole	1545		Hrs.	Sub.	.67	6"		
Wt. Set on Packer	40,000		# Pulled Loose Wt.	40,000		#	P.O. Sub.	1.02	4 3/4"		
Remarks	Mud Dropped 20 Feet, Tool was Chased 12 Feet During Test Period.						D.P. Sub.	6.06	4 3/4"		
Description of Blow During Test	Fair Blow, Decreasing to Weak Blow.						Shut in Tool	7.60	4 3/4"		
							Recorder	6.00	4 3/4"		
							Safety Jt.	1.73	4 5/8"		
							H. Sub.	1.05	4 3/4"		
							T.C. & Pkr.	6.18	6 5/8"		
							T.C. & Pkr.	5.65	6 5/8"		
							Total	35.96			
							Stub	1.05			
							Perf.	3.00	4 3/4"		
							R. Sub.	1.05	4 3/4"		
GAS BLOW MEASUREMENTS						Recorder	6.00	4 3/4"			
Measured with						I.D. Riser or Est.	<input type="checkbox"/>	T.C. & Stub	3.51	6 5/8"	
Type of Instrument						Cubic Feet/Day					
Time	Sfce. Choke	Reading	Inches						Total Interval	14.61	
									Pkr.	3.29	6 5/8"
									T.C. & Pkr.	6.26	6 5/8"
									Perf.	28.00	4 3/4"
									Sub.	.80	6"
									D.P.	3490.54	4 1/2"
									Sub.	.80	6"
									Perf. & B.N.	2.38	4 3/4"
									Total Below intv.	3532.07	
FLUID RECOVERY											
Was Test Reverse Circulated Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>											
Fluid Recovered (Total)	690'					Ft.	Total Length	3582.64			
Description of Fluid Recovered	270' Drilling Fluid.					MUD AND HOLE DATA					
	420' Fresh Water.					Mud Type	Gel.	W.L. 5.0			
						Filter Cake	2/32	Visc. 92	Wt. 9.2		
						Time Taken	May 26, 1965 @ 2200 hrs.				
						Contractor	Parker Drilling				
Remarks	Mis-Run, Partial Seat Failure.					Rig No. 10					
						Drill Pipe Size	4 1/2 XH				
						Drill Collar Size	2 7/8 ID	Length	572.15'		
						Main Hole Size	8 5/8"				
						Rat Hole Size					
Co. Rep.	A. Clare										
Tester	L. Navratil										
District	Edmonton					Ticket No.	C 3674		Date	May 27/65	
Company	Socony Mobil Oil of Canada					Address	P.O. Box 240, Dawson Creek, British Columbia				
Well Name	Socony Mobil Western Min.					Test No.	8		J.T.L. Test No.	8	
Number	Birch YT B-34					Field	Wildcat				
Formation	66°-03'-03"N-136°-51'-17"W					Consultant					
and Interval	Tight Hole		1505-1520								
Distribution of Reports						8 - Dawson Creek					

JOHNSTON TESTERS

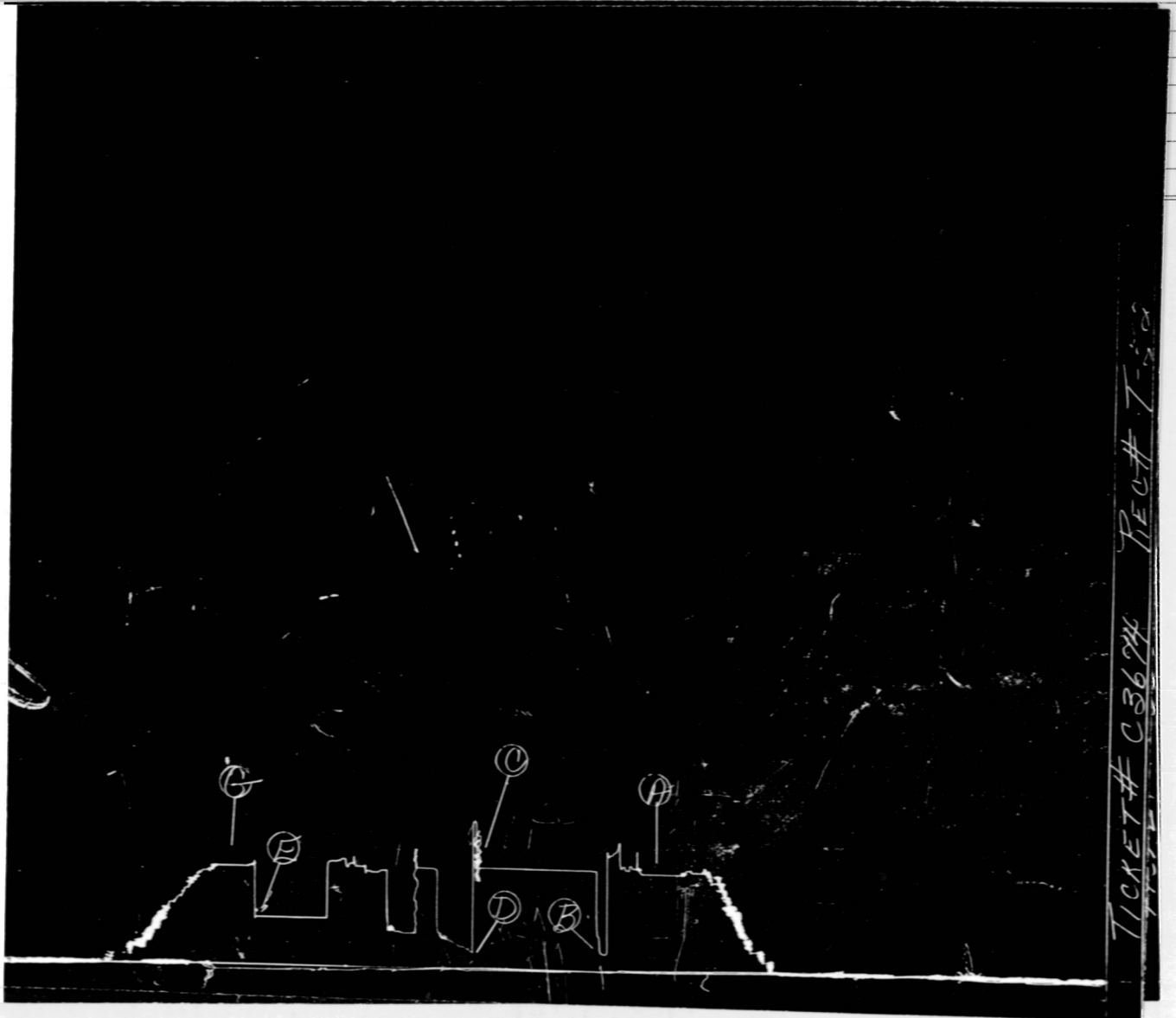
Pressure Data

Test Ticket No. C 3674

	T-49	T-52		
Order No.	7000	7000		
Capacity (P.S.I.G.)	1485	1510		
Order Depth				
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.	92°	92°		
Initial Hydrostatic	721#	740#		
First Initial Flow	155#	135#		
Initial Shut-In-Press	740#	731#		
Flowing Pres	144#	138#		
Final Flow	371#	383#		
Final Shut-In				
Final Hydrostatic	732#	742#		

Remarks

T-49 - Inside Recorder
 T-52 - Outside Recorder
 Mis-Run, Partial Seat Failure.



TICKET# C3674 REC# T-52

JOHNSTON TESTERS

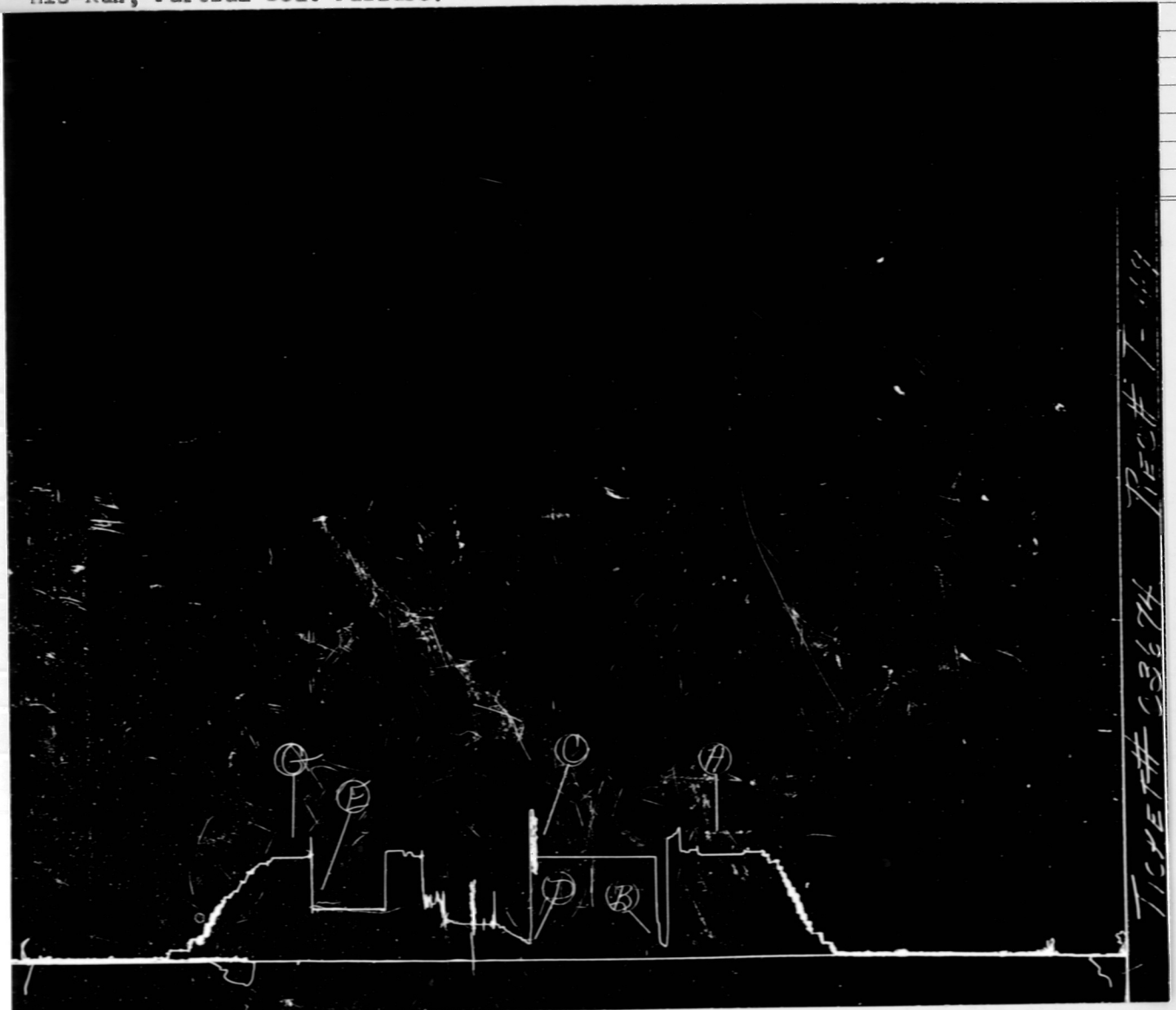
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JOHNSTON TESTERS

Pressure Data

Test Ticket No. C 3674

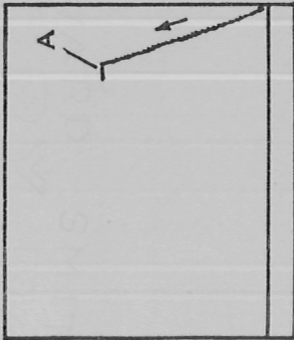
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Recorder Depth	1485	1510		
Pressure Gradient P.S.I./Ft.				
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Remarks

T-49 - Inside Recorder

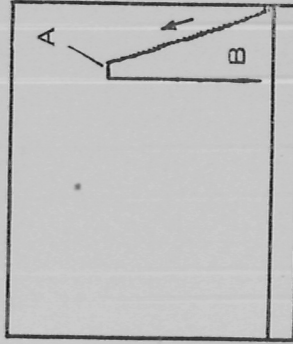
T-52 - Outside Recorder

Mis-Run, Partial Seat Failure.



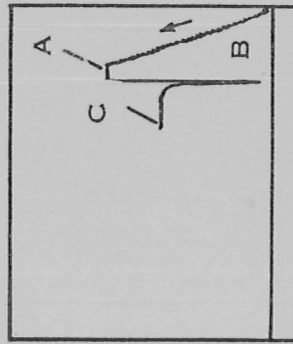
1

The pressure chart records the build-up in hydrostatic pressure as the testing assembly is lowered into the hole. Upon reaching the testing depth the hydrostatic head or pressure of mud column is recorded.



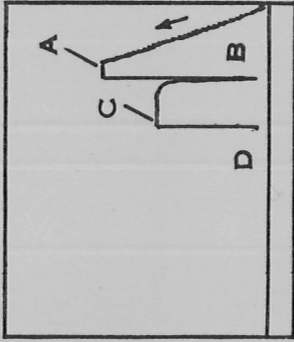
2

The packer is expanded and set to isolate the test zone. When the test valve is opened, a pressure drop is indicated on the pressure chart. This pressure drop is caused by removal of the hydrostatic mud pressure from the formation, allowing the formation to produce.



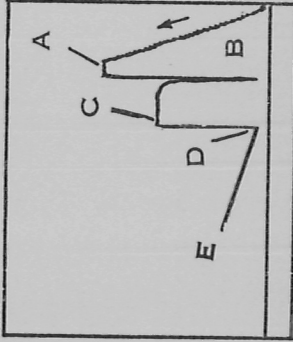
3

This chart shows the initial shut-in pressure. There is one mechanical method commonly used to obtain this pressure. A 4 stage shut-in tool that is run-in in the open position and rotated closed when the desired amount of initial flow time is obtained. This initial shut-in pressure is the best method yet devised for recording the original undisturbed reservoir pressure of a formation.



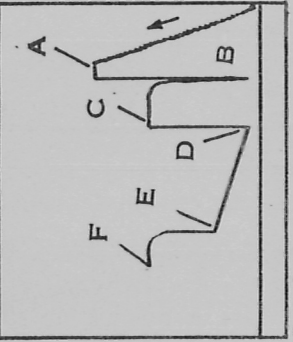
4

The chart indicates a pressure drop. The test tool has been opened to the surface by rotating the 4 stage shut-in tool into the open position. Permitting the open formation to produce.



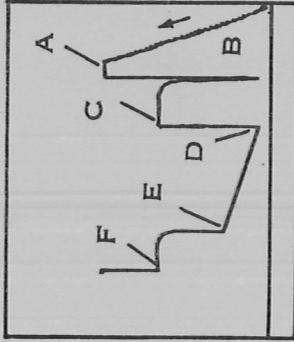
5

The pressure of fluid flowing from the formation into the well bore, through the perforated anchor, and into the drill pipe, is recorded on the chart.



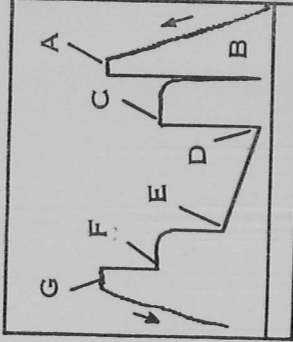
6

The final shut-in pressure is taken by stopping the flow of formation fluid into the drill pipe. Note the characteristic build-up curve. The well bore pressure is approaching equilibrium with the static reservoir pressure. When the shut-in curve levels-off the static reservoir pressure has been reached.



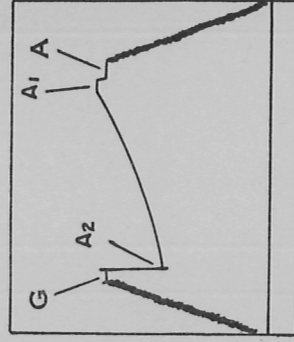
7

The chart shows the equalizing, the by-pass ports have been opened permitting the drilling fluid to flow through the packer to the test zone. Thus, pressure is equalized above and below the packer. The equalization of the pressure facilitates easier removal of the packer from the packer seat.



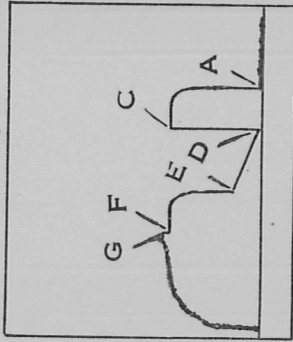
8

The packer has been unseated. The testing assembly is being removed from the hole.



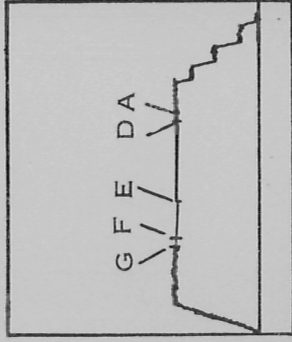
9

The above is a typical illustration of a chart from a recorder that is run below the bottom packer on a conventional straddle test. Only the hydrostatic mud pressures are recorded. When the tool is opened, there is a pressure differential across the bottom packer. This differential is lessened by the rubber flow of the packer element, which in turn causes a draw down in pressure. If the below straddle chart reads the same as a chart that is run to record pressures of the test zone, then the bottom packer has failed. If this occurs, all zones below the top packer are being tested.



10

In this case a recorder has been run in an air chamber. The hydrostatic mud pressures are not influencing the recorder while going in or coming out of the hole due to the main tester valve being closed. The flow pressures and shut-in pressures are recorded while the main tester valve is opened.



11

In this case a recorder has been run above the main tester valve with a fluid cushion used in the drill pipe. No pressure is recorded as the testing tool is being lowered into the hole. Then the fluid cushion pressure is recorded as the drill pipe is filled with fluid. As more stands are run into the hole, the recorder registers the hydrostatic pressures of the cushion. When the main testing valve is opened the pressure of the cushion column or the flowing pressure of the formation, (which ever is greater), is recorded.

INDEX OF LABELED POINTS:

- A—Initial Hyd. Mud
 - B—First Initial Flow
 - C—Initial Shut-in
 - D—Initial Flow
 - E—Final Flow
 - F—Final Shut-in
 - G—Final Hyd. Mud
- The following points are either fluctuating pressures or points indicating other packer settings, (testing different zones).
- A-1, A-2, A-3, etc. Initial Hyd. Pressures.
 - B-1, B-2, B-3, First Initial Flow.
 - C-1, C-2, C-3, etc. The Initial Shut-in Pressures.
 - D-1, D-2, D-3, etc. Flowing Pressures.
 - E-1, E-2, E-3, etc. The Final Flow Pressures or Final Shut-in Pressures.
 - F-1, F-2, F-3, etc. The Final Shut-in Pressures.
 - G-1, G-2, G-3, etc. Final Hyd. Mud Pressures.

Z — Special pressure points such as pumping pressure recorded for formation breakdown.