

JOHNSTON TESTERS

TEST DATA										
Formation	Zone Thickness		Ft.	Elevation	2190 Kb 2182 Kb					
Interval	2300	To	2320 T.D.	2320	Bottom Hole Choke Size	1/2"				
Type of Test	Open Hole, Bottom Hole							Fluid Cushion Type		
Time Started in Hole	2000	Hrs.	Tool Open	2132	Hrs.	Amount				
First Flow	5	Min.	Shut In	30	Min.	TOOL SEQUENCE				
Second Flow	30	Min.	Final Shut In	60	Min.	Tool	Length	O.D.		
Pulled Loose @	2337	Hrs.	Out of Hole	0100	Hrs.	D.P. Sub.	.90	6"		
Wt. Set on Packer	30,000	#	Pulled Loose Wt.	68,000	#	Shut in Tool	6.03	4 3/4"		
Remarks						Hyd. Tool	7.49	4 3/4"		
Description of Blow During Test	Strong Blow, Decreasing to Fair Blow Throughout Test.					Jars	4.12	4 3/4"		
						Safety Jt.	1.74	4 3/4"		
						T.C. & Pkr.	6.25	5 1/2"		
						T.C. & Pkr.	5.35	5 1/2"		
						Total	31.88			
						Stub	.90	4 3/4"		
						Perf.	5.00	4 3/4"		
						2 Recorders	11.83	4 3/4"		
						Perf. & B.N.	2.49	4 3/4"		
						Total Interval	20.22			
GAS BLOW MEASUREMENTS										
Measured with	I.D. Riser or Est. <input type="checkbox"/>									
Type of Instrument										
Time	Sfce. Choke	Reading Inches	Cubic Feet, Day							
FLUID RECOVERY										
Was Test Reverse Circulated	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>						Total Length	52.10		
Fluid Recovered (Total)	1530'	Ft.						MUD AND HOLE DATA		
Description of Fluid Recovered	180' Slightly Water Cut Drilling Fluid.					Mud Type	Gel and Chem	W.L.	6.8	
	700' Slightly Mud Cut Salt Water					Filter Cake	2/32	Visc.	90	
	650' Clean Salty Water.					Time Taken	1800 hrs.			
Remarks	Test Satisfactory.					Contractor	Parker Drilling			
						Rig No.	10			
						Drill Pipe Size	4 1/2 XH			
						Drill Collar Size	2 7/8 ID	Length	522'	
						Main Hole Size	8 5/8"			
Co. Rep.						Rat Hole Size				
Tester	T. Scheffelmaier									
District	Edmonton		Ticket No.		C 3887	Date		April 23/65		
Company	Socony Mobil Oil of Canada					Address P.O. Box 240, Dawson Creek, B. C.				
Well Name	Socony Mobil Western Min.					Test No.	5	J.T.L. Test No.	5	
Number	Birch YT B-34					Field	Eagle Plains		Province	Yukon
Formation and Interval	66°-03'-03"N-136°-51'-17"W DST#5 2300-2320					Consultant				
Distribution of Reports						8 - Dawson Creek				

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Pressure Data

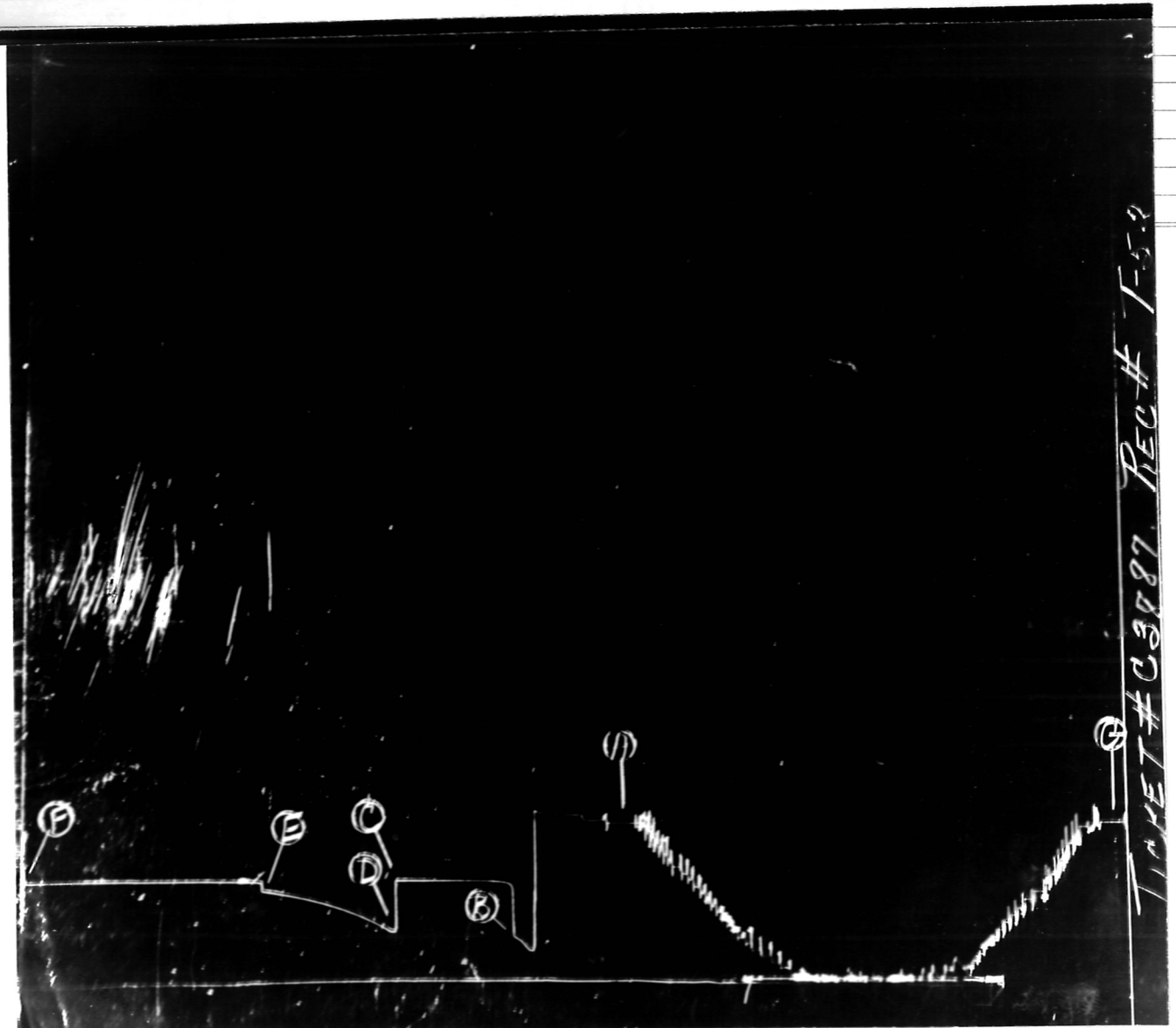
Test Ticket No. C 3887

Recorder No.	T-52	T-49		
Capacity (P.S.I.G.)	7000	7000		
Recorder Depth	2306	2311		
Pressure Gradient P.S.I./Ft.				
Well Temperature °F.	72°	72°		
A Initial Hydrostatic	1208#	1220#		
B First Initial Flow	349#	369#		
C Initial Shut-In-Pres	748#	770#		
D Flowing Pres	379#	431#		
E Final Flow	674#	693#		
F Final Shut-In	748#	770#		
G Final Hydrostatic	1154#	1190#		

Remarks

T-52 - Outside Recorder

T-49 - Outside Recorder - Called in for Recalibration.



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Pressure Data

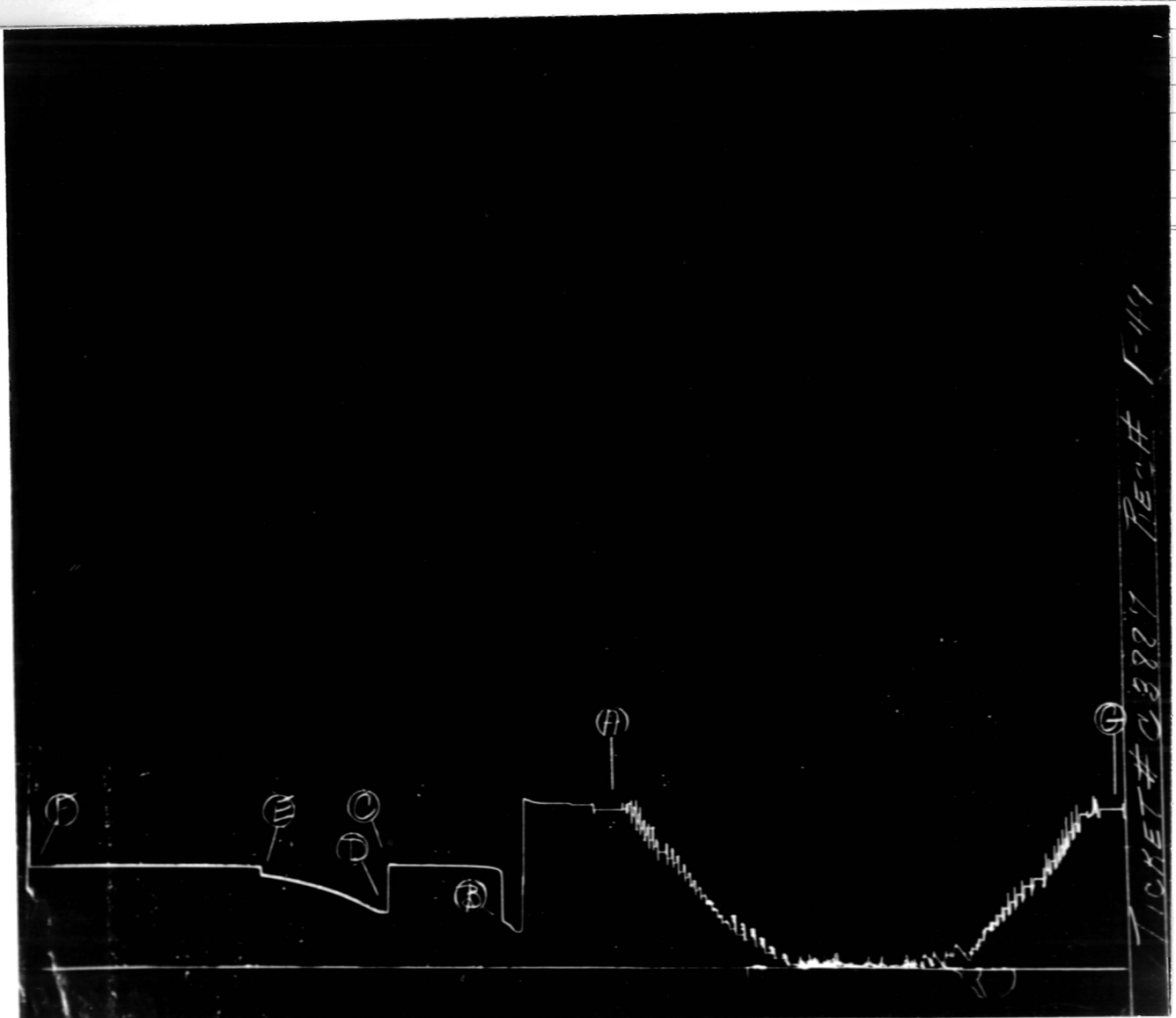
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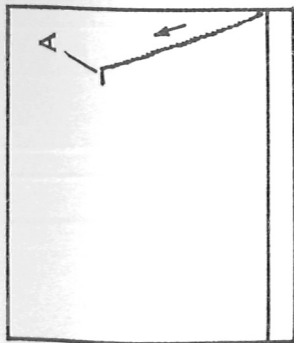
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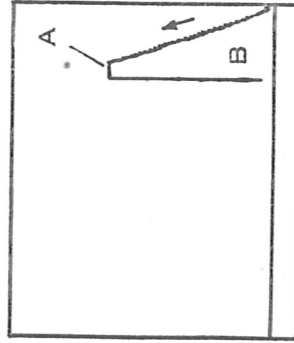
Remarks

T-52 - Outside Recorder

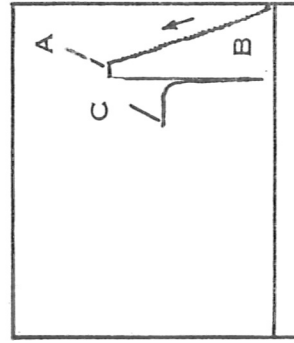
T-49 - Outside Recorder - Called in for Recalibration.



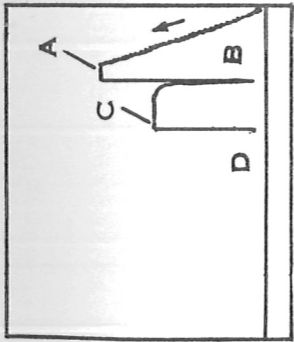
1 The pressure chart records the build-up in hydrostatic pressure as the testing assembly is lowered into the hole. Upon reaching the testing depth the hydrostatic head or pressure of mud column is recorded.



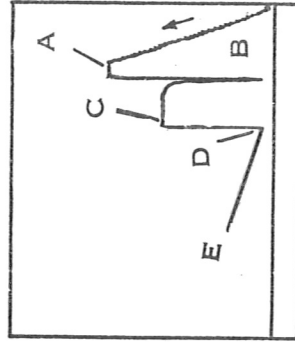
2 The packer is expanded and set to isolate the test zone. When the test valve is opened, a pressure drop is indicated on the pressure chart. This pressure drop is caused by removal of the hydrostatic mud pressure from the formation, allowing the formation to produce.



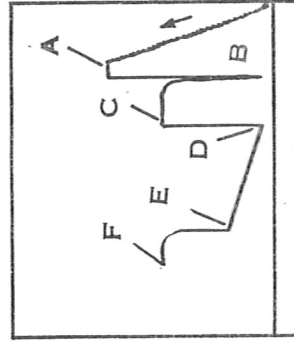
3 This chart shows the initial shut-in pressure. There is one mechanical method commonly used to obtain this pressure. A 4 stage shut-in tool, that is run-in in the open position and rotated closed when the desired amount of initial flow time is obtained. This initial shut-in pressure is the best method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



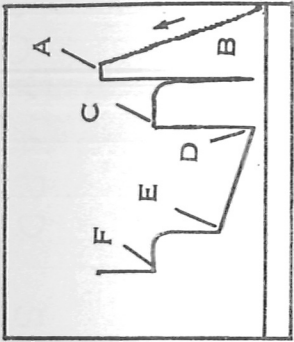
4 The chart indicates a pressure drop. The test tool has been opened to the surface by rotating the 4 stage shut-in tool into the open position. Permitting the open formation to produce.



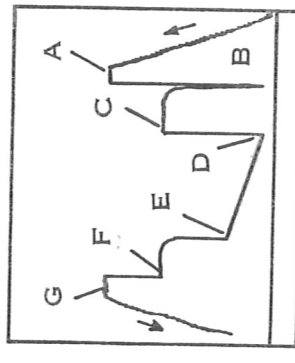
5 The pressure of fluid flowing from the formation into the well bore, through the perforated anchor, and into the drill pipe, is recorded on the chart.



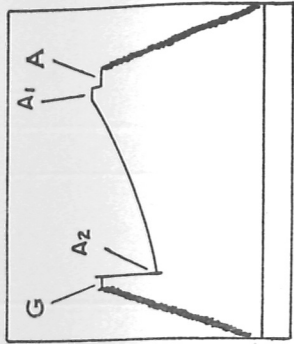
6 The final shut-in pressure is taken by stopping the flow of formation fluid into the drill pipe. Note the characteristic build-up curve. The well bore pressure is approaching equilibrium with the static reservoir pressure. When the shut-in curve levels-off the static reservoir pressure has been reached.



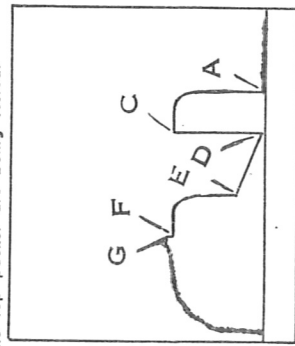
7 The chart shows the equalizing, the by-pass ports have been opened permitting the drilling fluid to flow through the packer to the test zone. Thus, pressure is equalized above and below the packer. The equalization of the pressure facilitates easier removal of the packer from the packer seat.



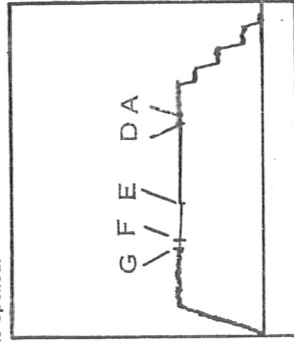
8 The packer has been unseated. The testing assembly is being removed from the hole.



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, 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.
 - E1, 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.