JOHNSTON TESTERS

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	0627	-	5/8"
FAIR BLOW THROUGHOUT TEST			
CLOSED FOR INITIAL SHUT-IN	0637	-	"
FINISHED SHUT-IN	0707	-	"
RE-OPENED TOOL	0712	-	"
CLOSED FOR FINAL SHUT-IN	0812	-	"
PULLED PACKER LOOSE	0912	-	"

EQUIPMENT, HOLE & MUD DATA

Type Test: M. F. E.
Formation Tested: MISSISSIPPI
Elevation: 2469 Ft
Net Productive Interval: 6 Ft
Estimated Porosity: 10 %
All Depths Measured From: KELLY BUSHING

EQUIPMENT SEQUENCE

COMPONENTS	Size/Type	Depth/Length/ I.D.
DRILL PIPE	4½" XH	4202'/3.9
CIRCULATING SUB	4½" FH	
DRILL COLLARS	4½" FH	58'/2.25"
CROSS-OVER SUB	4½" FH	
CROSS-OVER SUB	3½" FH	
MULTI-FLOW EVALUATOR	3½"	
JARS	3½" HS-1	
SAFETY JOINT	4½" HOMCO	
CONV. PACKER	6 5/8"	4290'
BOB-TAIL PACKER	6 5/8"	4296'
PERF. ANCHOR	3½" FH	4'
RECORDER CARRIER	4 7/8" T	6'
RECORDER CARRIER	4 7/8" J	6'

RECOVERY DATA

Description	Amount
HEAVY OIL CUT MUD	60'(.31 BBLS)

Total Depth: 4312 Ft.
Main Hole/Casing Size: 7 7/8"
Rat Hole/Liner Size: -
Bottom Choke Size: 5/8"
Mud Type: STARCH Wt. 10.0
Viscosity: 55 Water Loss 13.2 C.C.

Cushion Type	Amount	Pressure
	-	

Remarks: CHLORIDE CONTENT OF PIT MUD SAMPLE: 45,000 PPM

Address: BOX 752; DRUMRIGHT, OKLAHOMA

Company: TIDEWATER OIL COMPANY Field: CASTLE ROCK
Well: F. SAVER #1 Location: 27-14S-27W
Test Interval: 4296' TO 4312' Test #: 1 Date: 5-18-66

County: GOVE State: KANSAS Field Report No.: 15755 A
Technician: RAYMER(PRATT) Test Approved By: MR. JOE GREGORY No. Reports Requested: 7 x

JOHNSTON TESTERS

MULTI-FLOW EVALUATOR
FLUID SAMPLE REPORT

Date 5-18-66 Field Report No. 15755 A

Company TIDEWATER OIL COMPANY

Well F. SAVER #1 Field CASTLE ROCK

County GOVE State KANSAS

Test Interval 4296' To 4312' Test No. 1

Type of Test M. F. E. Recovery Description 60' OF HEAVY OIL CUT MUD

Bot. Hole Temp. 129 °F.

Recorded Pressures:
ISI * 1235 psig.
SSI - psig.
FF 45 psig.
FSI * 1127 psig.

Shut-in Pressure did not reach static reservoir pressure.

EVALUATOR SAMPLER UNIT

Sample Drained: [X] On Location [ ] Service Center [ ] Other

[ ] Laboratory-Name
Address

Sampler Pressure 15 psig. at Surface

Recovery:
Cu. Ft. Gas .01
cc. Oil -
cc. Water -
cc. Mud -
Total Liquid cc. -

Gravity - °API - °F.
Gas/Oil Ratio -

	RESISTIVITY		CHLORIDE CONTENT
Recovery Water	- @ - °F.		- ppm.
Recovery Mud	- @ - °F.		
Recovery Mud Filtrate	- @ - °F.		- ppm.
Mud Pit Sample	.29 @ 55 °F.		
Mud Pit Sample Filtrate	5. @ 55 °F.		45,000 ppm.

Remarks THIS APPEARS TO BE A TEST OF A TIGHT FORMATION CONTAINING HYDROCARBONS.

JOHNSTON TESTERS

PRESSURE DATA

Instrument No.		J-044			
Capacity (P.S.I.G.)		4700			
Instrument Depth		4306'			
Instrument Opening		OUTSIDE			
Pressure Gradient P.S.I./Ft.		-			
Well Temperature °F.		129			
Initial Hydrostatic Mud	A	2420			
Initial Shut-in	B	* 1235			
Initial Flow	C	23			
	C-1	24			
	C-2	33			
Final Flow	D	45			
Final Shut-in	E	* 1127			
Final Hydrostatic Mud	F	2393			

Field Report No. 15755 A

TIME DATA

	Time Given	Time Computed
	30 Mins.	Mins.
	10 Mins.	Mins.
	- Mins.	Mins.
	- Mins.	Mins.
	60 Mins.	Mins.
	60 Mins.	Mins.

Remarks:

**Shut in pressure did not reach static reservoir pressure.*

Clock Travel _____ inches per min.

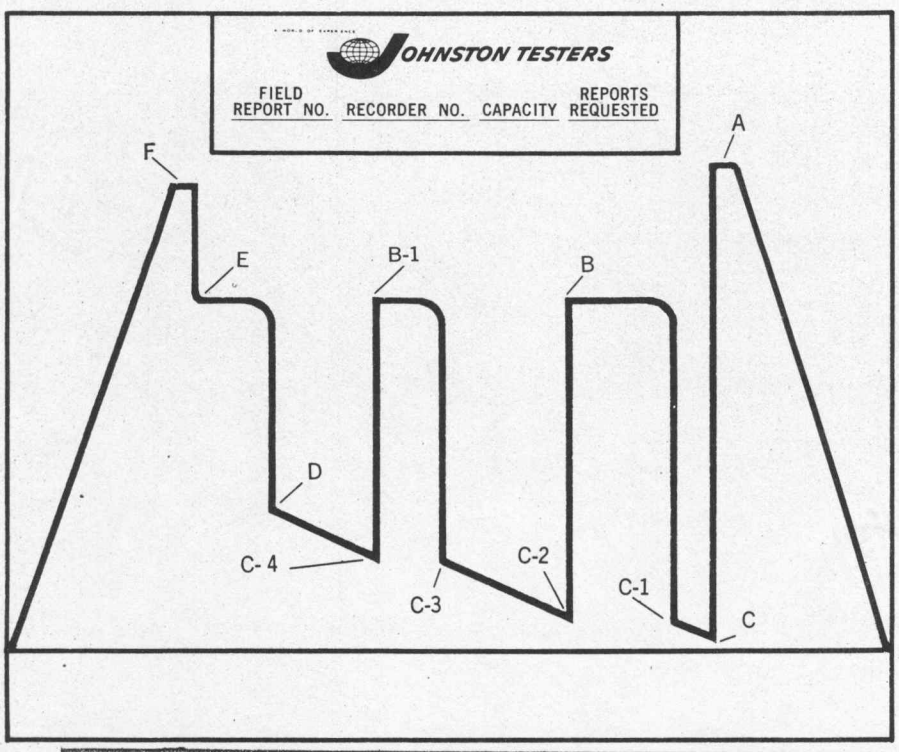
PRESSURE INCREMENTS

Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$	Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$

More accuracy with the JOHNSTON "J" RECORDER

JOHNSTON TESTERS

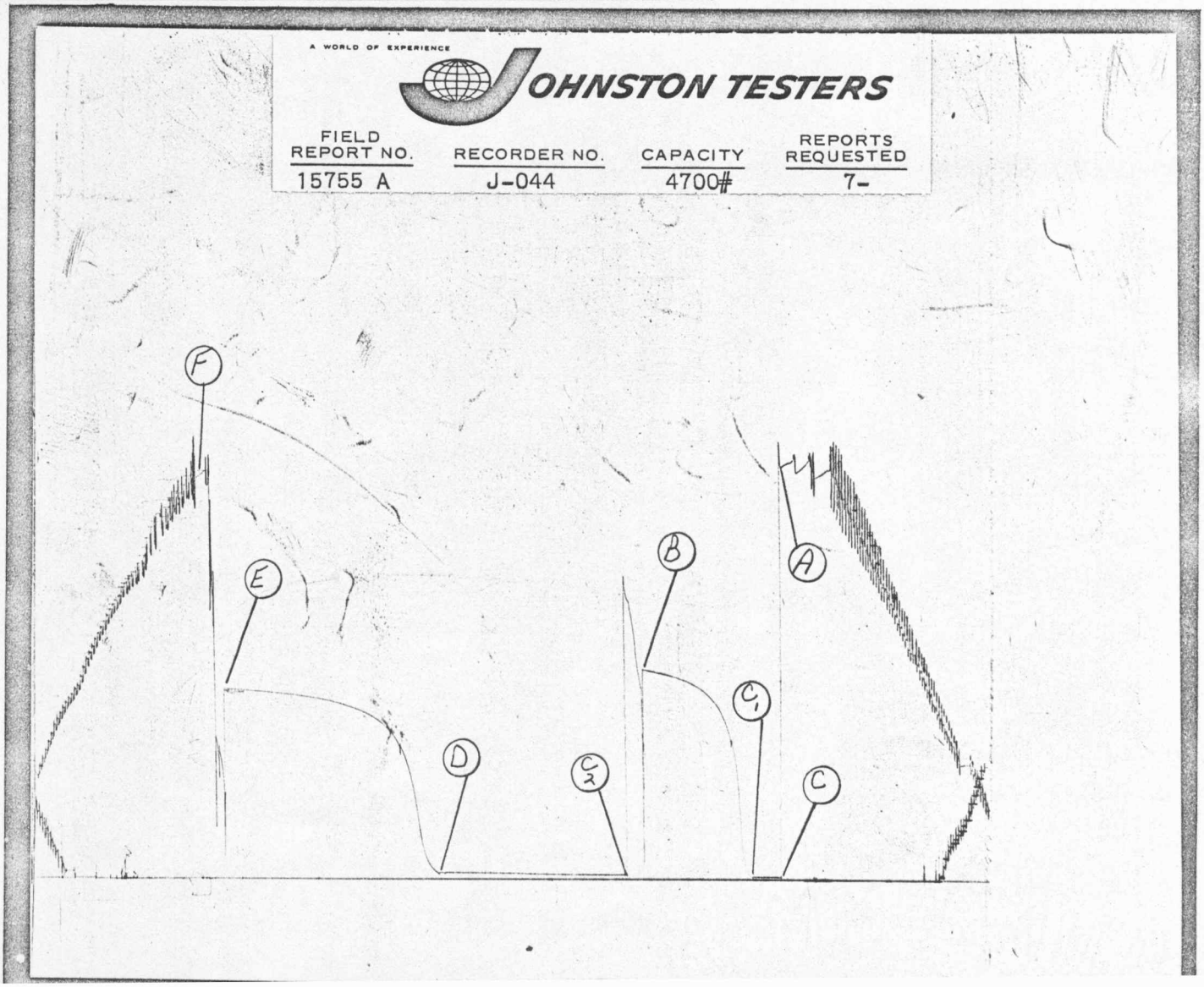
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

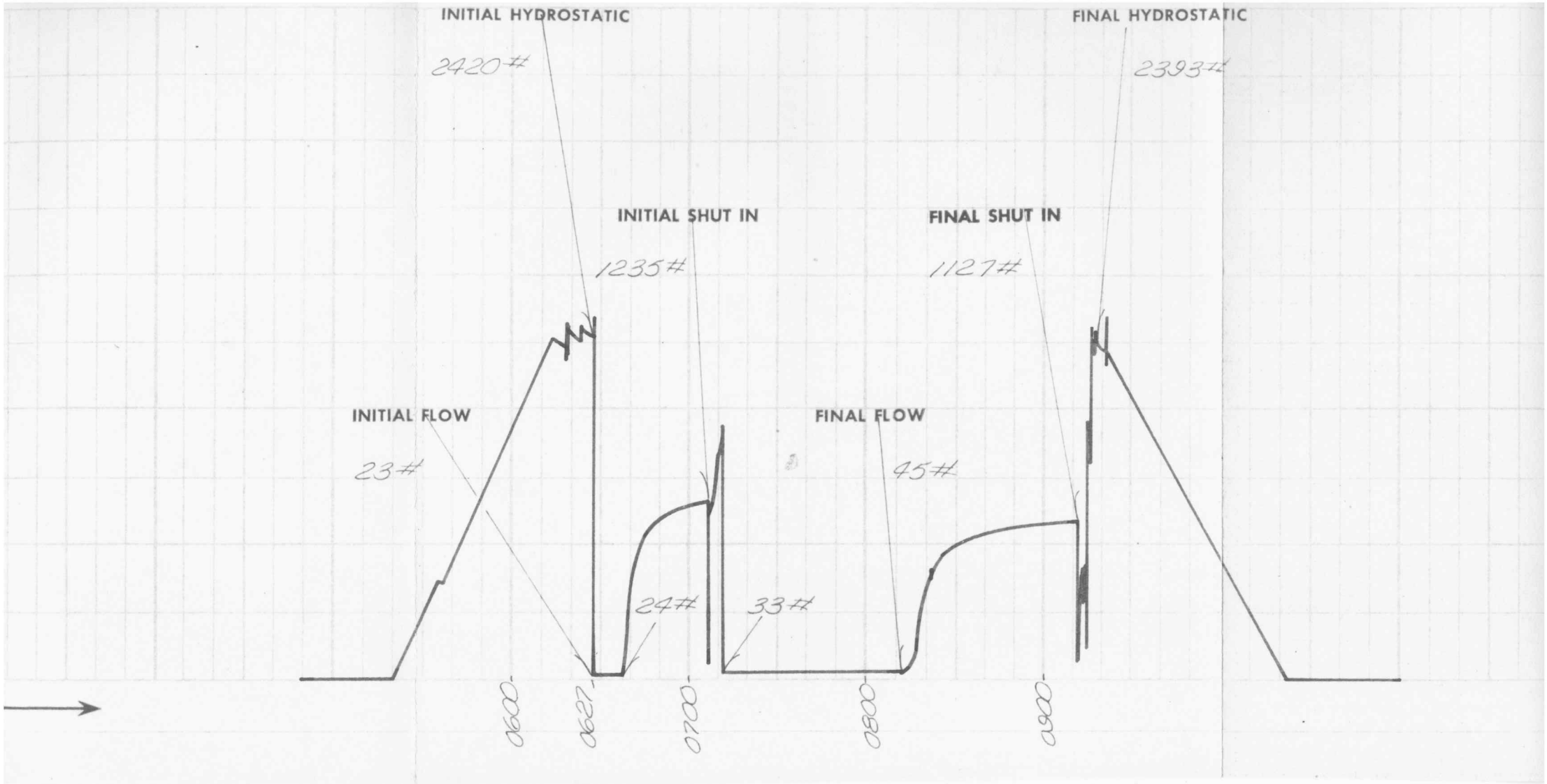


A. Initial Hyd. Mud
B. Initial Shut-in
C. Initial Flow
D. Final Flow
E. Final Shut-in
F. Final Hyd. Mud

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, etc. Subsequent Shut-in Pressures
C-1, C-2, C-3, etc. Flowing Pressures
D-1, D-2, D-3, etc. Subsequent Final Flow Pressures
E-1, E-2, E-3, etc. Subsequent Final Shut-in Pressures
F-1, F-2, F-3, etc. Final Hyd. Mud Pressures
Z — Special pressure points such as pumping pressure recorded for formation breakdown.




INITIAL HYDROSTATIC
2420#
FINAL HYDROSTATIC
2393#
INITIAL SHUT IN
1235#
FINAL SHUT IN
1127#
INITIAL FLOW
23#
FINAL FLOW
45#
24#
33#
0600
0627
0700
0800
0900