

LARGE FORMAT
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AND IS LOCATED
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[illegible]

Flow Time	1st Min. 7	2nd Min. 180	Date	2-11-64	Ticket Number	393461 S
Closed In Press. Time	1st Min. 45	2nd Min. 60	Kind of Job	OPEN HOLE	Halliburton District	LOVINGTON
Pressure Readings	Field	Office Corrected	Tester	C.L. CASTELLOW	Witness	MR. CARPENTER
Depth Top Gauge	13105 Ft.	Blanked Off	Drilling Contractor	JOHN GRAPHE DRILLING COMPANY		
BT. P.R.D. No.	74	24 Hour Clock	Elevation	4117' GL	Top Packer	13115'
Initial Hydro Mud Pressure	6030	6004	Total Depth	13139'	Bottom Packer	13120'
Initial Closed in Pres.	4993	5024	Interval Tested	13120'-13139' (9') Net	Formation Tested	Devonian
Initial Flow Pres.	1225	1009	Casing or Hole Size	6 1/4"	Casing Perfs. Top	
Final Flow Pres.	3824	1132	Surface Choke	1" Adj.	Bottom Choke	5/8"
Final Closed in Pres.	4993	5024	Size & Kind Drill Pipe	3 1/2" IF	Drill Collars Above Tester	2" x 270' I.D. - LENGTH
Final Hydro Mud Pressure	5987	5985	Mud Weight	9.0	Mud Viscosity	56
Depth Cen. Gauge		Blanked Off	Temperature	210 °F Est. °F Actual	Anchor Size & Length	1D 2" OD 4 3/4" X 19'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	Rotary Table	Depth of Tester Valve	13095 Ft.
Initial Hydro Mud Pres.			TYPE	AMOUNT	Depth Back Pres. Valve	
Initial Closed in Pres.			Cushion	water 1500 Ft.		
Initial Flow Pres.	1		Recovered	748	Feet of water cut mud.	
Final Flow Pres.	2		Recovered	1964	Feet of mud cut water cushion.	
Initial Flow Pres.	1		Recovered	654	Feet of gas & salt water cut mud.	
Final Closed in Pres.			Recovered	4114	Feet of black salt water, slightly	
Final Hydro Mud Pres.			Oil A.P.I. Gravity		gas cut. Water Spec. Gravity	
Depth Bot. Gauge	13135 Ft.	yes Blanked Off	Gas Gravity		Surface Pressure	0 psi
BT. P.R.D. No.	322	24 Hour Clock	Tool Opened	5:00 P.M.	A.M. P.M. Tool Closed	9:52 P.M. A.M. P.M.
Initial Hydro Mud Pres.	6030	6017	Remarks	Tool opened for a 7 minute first flow. Clos-		
Initial Closed in Pres.	4993	5034		ed tool for a 45 minute initial closed in pressure.		
Initial Flow Pres.	1225	1017		Reopened tool for a 180 minute second flow with a		
Final Flow Pres.	3824	1135		weak blow increased to a good blow throughout test.		
Final Closed in Pres.	4993	5032		No odor of gas anytime. Closed tool for a 60		
Final Hydro Mud Pres.	5987	5996		minute final closed in pressure.		

FORMATION TEST DATA

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 5
CASE NO. 5

Gauge No.		74		Depth		31,105'		Clock		24 hour		Ticket No.		393461	
First Flow Period			Initial Closed In Pressure			Second Flow Period			Final Closed In Pressure						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.					
P ₀	.000	1009	.000		1132	.000	1318	.000		3800					
P ₁	.0031	1030	.162		5024	.1248	1989	.208		5024					
P ₂	.0062	1037				.2496	2571								
P ₃	.0093	1060				.3744	3043								
P ₄	.0124	1074				.4992	3453								
P ₅	.0155	1089				.6240	3800								
P ₆	.0186	1115													
P ₇	.0220	1132													
P ₈															
P ₉															
P ₁₀															

Gauge No. 322		Depth 13,135'		Clock 24 hour	
P ₀	.000	1017	.000	1135	.000 1323 .000 3805
P ₁	.0029	1036	.149	5034	.1188 1985 .204 5032
P ₂	.0058	1053			.2376 2564
P ₃	.0087	1068			.3564 3071
P ₄	.0116	1085			.4752 3461
P ₅	.0145	1103			.5940 3805
P ₆	.0174	1122			
P ₇	.0200	1135			
P ₈					
P ₉					
P ₁₀					

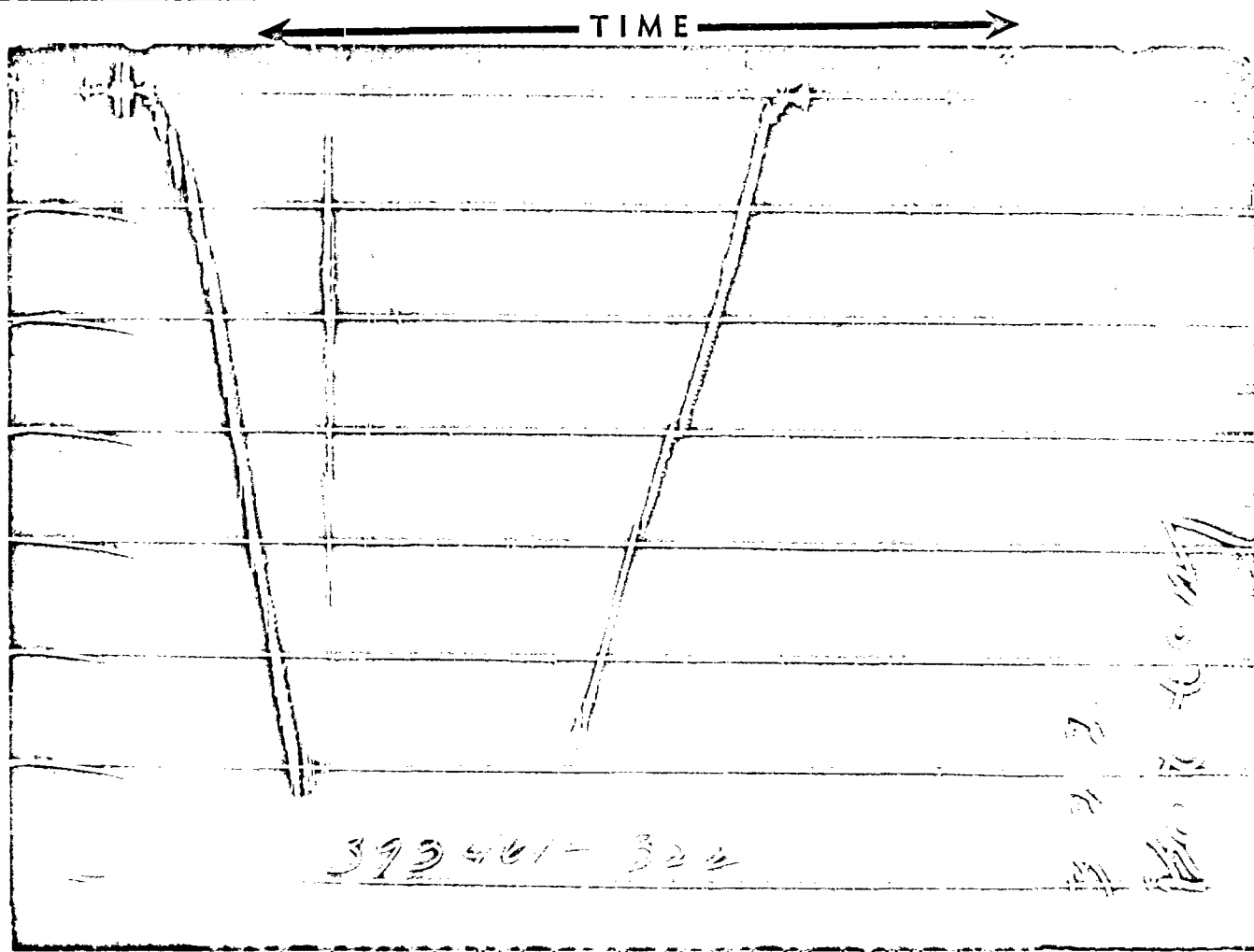
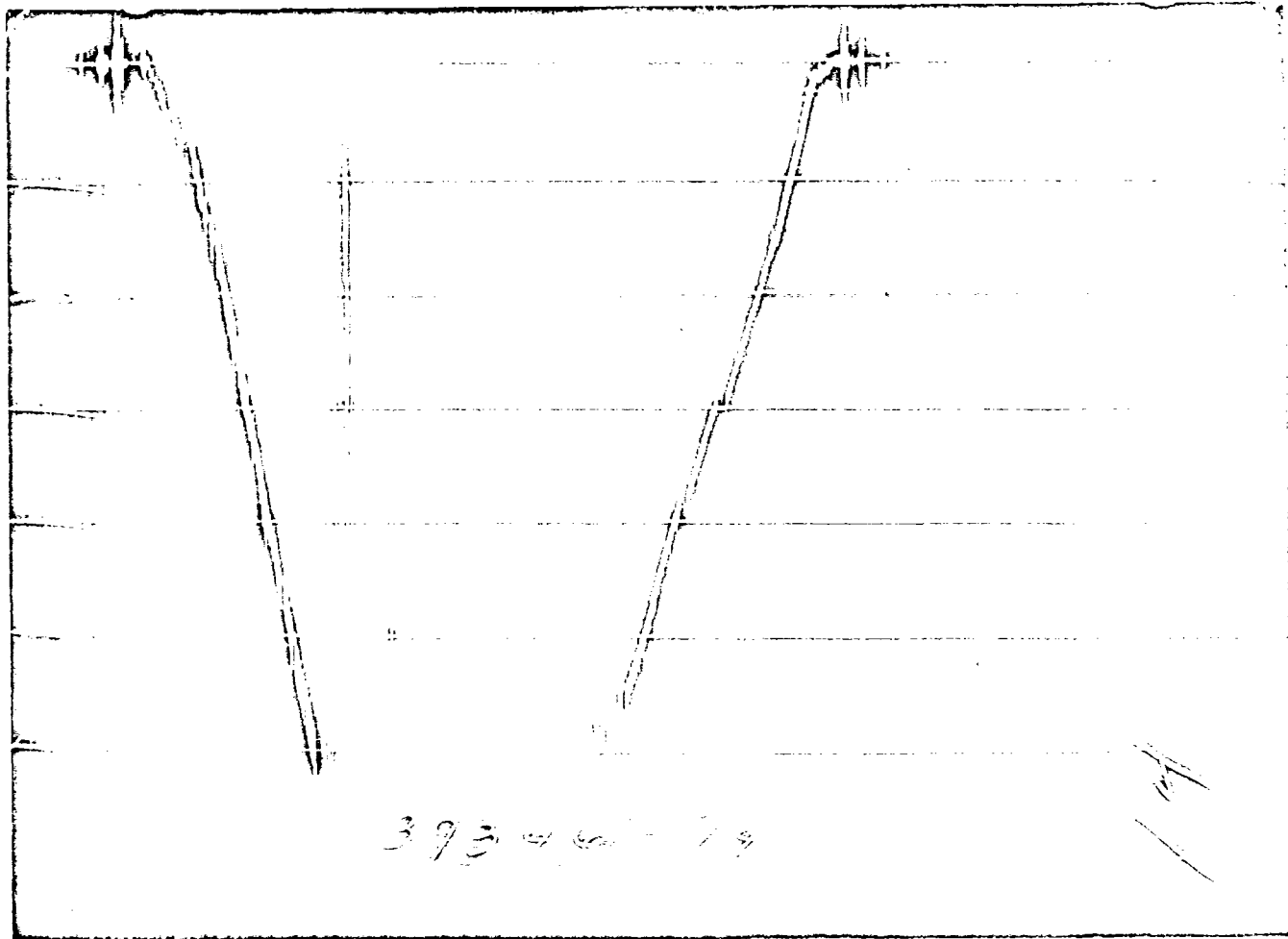
Reading Interval 1 Minutes 36

REMARKS:

SPECIAL PRESSURE DATA

ILLEGIBLE

PRESSURE



Each Horizontal Line Equal to 1000 psi.

SURFACE INFORMATION

Description (Rate of Flow)	Time	Pressure (P.S.I.G.)	Surface Choke
Opened Tool	1117	-	1/8"
STRONG BLOW			
CHANGED TO 1/2" CHOKE	1125	-	"
CLOSED FOR INITIAL SHUT-IN	1137	-	1/2"
RE-OPENED TOOL	1309	-	1/8"
STRONG BLOW THROUGHOUT			
SECOND FLOW PERIOD.			
	1320	-	1/4"
	1325	-	1/2"
CLOSED FOR SECOND SHUT-IN	1410	-	"
RE-OPENED TOOL	1611	-	1/8"
GAS TO SURFACE	1613	-	"
STRONG BLOW FOR REMAINDER OF TEST.			
	1620	-	1/4"
	1625	-	1/2"
	1630	-	1"
	1700	-	1/8"
CLOSED FOR FINAL SHUT-IN	1712	-	"
FINISHED SHUT-IN	1912	-	"
PULLED PACKER LOOSE	1920	-	"

Cushion Type	Amount	Pressure	Bottom Choke
	-		Size 1"

MUD DATA

Mud Type	FRESH WATER & GEL	Wt.	8.8
Viscosity	45	Water Loss	8.8 C.C.
Resist. of Mud	1 @ 88 °F.	of Filtrate	.6 @ 90 °F.
Chloride Content	2300		PPM

EQUIPMENT & HOLE DATA

Type Test	M. F. E. OPEN HOLE
Formation Tested	FUSSELMAN
Elevation	4126 Ft.
Net Productive Interval	- Ft.
Estimated Porosity	- %
All Depths Measured From	KELLY BUSHING
Total Depth	12993 Ft.
Main Hole/Casing Size	6 1/8"
Rat Hole/Liner Size	-
Drill Collar Length	540' I.D. 2.25"
Drill Pipe Length	12327' I.D. 2.7"
Packer Depth(s)	12900 & 12905 Ft.

MULTI-FLOW EVALUATOR FLUID SAMPLE DATA

Sampler Pressure	300	P.S.I.G. at Surface
Recovery: Cu. Ft. Gas	.8	
cc. Oil	2320	
cc. Water	-	
cc. Mud	-	
Tot. Liquid cc.	2320	
Gravity	49.2 °API @ 60 °F.	
Gas/Oil Ratio	55	cu. ft./bbl.

RESISTIVITY

CHLORIDE CONTENT

Recovery Water	- @ - °F.	- ppm
Recovery Mud	- @ - °F.	
Recovery Mud Filtrate	- @ - °F.	- ppm
Mud Pit Sample	1 @ 88 °F.	
Mud Pit Sample Filtrate	.6 @ 90 °F.	2300 ppm

RECOVERY DESCRIPTION	FEET	BARRELS	% OIL	% WATER	% OTHERS	API GRAVITY	RESISTIVITY	CHL. PPM
FREE OIL	10560	76.80	100			48.1 @ 60 °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	
						@ °F.	@ °F.	

Remarks:

Address 1900 WILCO BUILDING; MIDLAND, TEXAS

Company J. M. HUBER CORPORATION

Well LONE STAR FEDERAL #1

Test Interval 12905' TO 12993'

Location 660' FN & E LINE

Test # 11

Field SOUTH PRAIRIE

SEC. 20 BLK 8S SUR 36E

Date 8-18-68

County ROOSEVELT

State

NEW MEXICO

Field Report No. 10314 B

PRESSURE DATA

Instrument No.	T-74			Field Report No. 10314 B	
Capacity (P.S.I.G.)	7000				
Instrument Depth	12981'				
Instrument Opening	INSIDE				
Pressure Gradient P.S.I./Ft.					
Well Temperature °F.	205				
				TIME DATA	
Initial Hydrostatic Mud	A	5954		Time Given	Time Computed
Initial Shut-in	B *	4396		92 Mins.	92 Mins.
Initial Flow	C	699		20 Mins.	21 Mins.
SECOND FLOW	C-3	2875		61 Mins.	61 Mins.
SECOND SHUT-IN	B-1 *	4420		121 Mins.	121 Mins.
Final Flow	D	3630		61 Mins.	58 Mins.
Final Shut-in	E *	4491		120 Mins.	122 Mins.
Final Hydrostatic Mud	F	5990			
Remarks:	C-1	1490			
	C-2	1998			
	C-4	3229			

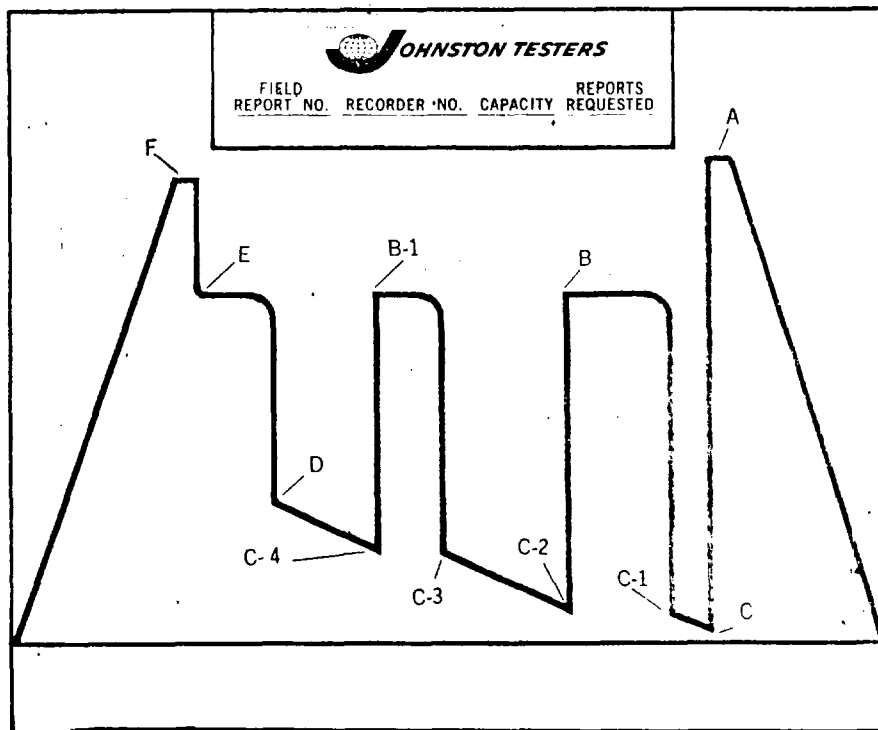
* Shut in pressure did not reach static reservoir pressure.

Clock Travel 0.02089 inches per min.

PRESSURE INCREMENTS

[illegible]

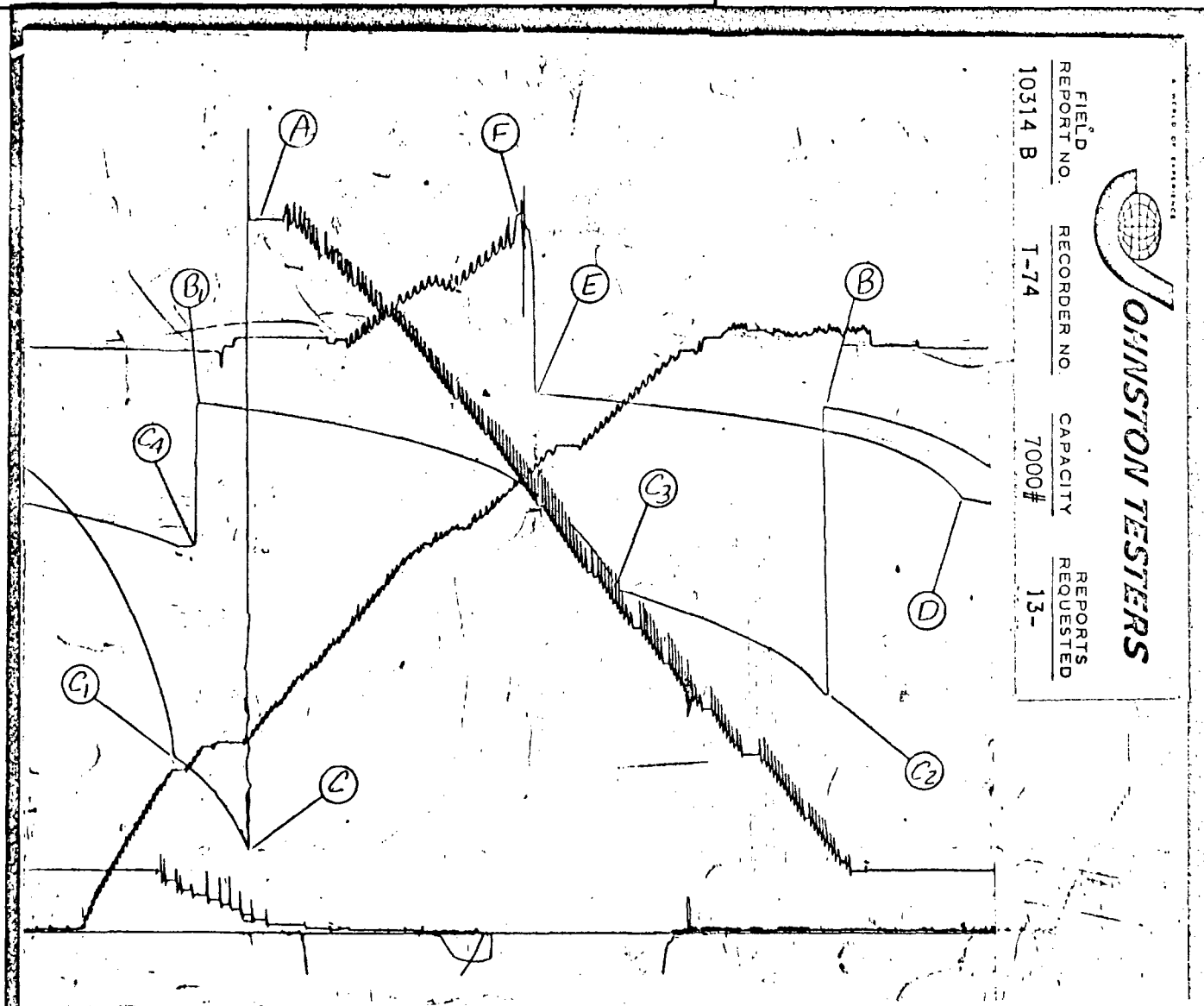
GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- 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.



FIELD REPORT # 10314 B

