

Flow Time	1st - Min.	2nd 30 Min.	Date	3-21-62	Ticket Number	314717 - S
Closed In Press. Time	1st - Min.	2nd 30 Min.	Kind of Job	OPEN HOLE	Halliburton District	LIBERAL
Pressure Readings	Field	Office Corrected	Tester	MC DANIEL	Witness	BURLINGAME
Depth Top Gauge	4980' Ft.	NO Blanked Off	Drilling Contractor	LOHMANN & JOHNSTON DRILLING COMPANY		
BT. P.R.D. No.	1605	12 Hour Clock	Elevation	2801' D.F.	Top Packer	-
Initial Hydro Mud Pressure	2770	2464	Total Depth	4999'	Bottom Packer	4988'
Initial Closed in Pres.	-	-	Interval Tested	4988' - 4999'	Formation Tested	-
Initial Flow Pres.	15	1 2 12	Casing or Hole Size	7 7/8"	Casing Perfs. } Top	-
Final Flow Pres.	30	1 2 34	Surface Choke	1/4" x 1"	Bottom Choke	5/8"
Final Closed in Pres.	1960	1611	Size & Kind Drill Pipe	4 1/2" F.H.	Drill Collars Above Tester	? x 180'
Final Hydro Mud Pressure	2860	2444	Mud Weight	9.4	Mud Viscosity	39
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	120 °F Est. °F Actual	Anchor Size & Length	ID - OD - X -
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHING	Depth of Tester Valve	4965' Ft.
Initial Hydro Mud Pres.			Cushion	TYPE AMOUNT	Depth Back Pres. Valve	Ft.
Initial Closed in Pres.			Recovered	50' Feet of	drilling mud	
Initial Flow Pres.		1 2	Recovered	Feet of		
Final Flow Pres.		1 2	Recovered	Feet of		
Final Closed in Pres.			Recovered	Feet of		
Final Hydro Mud Pres.			Oil A.P.I. Gravity	-	Water Spec. Gravity	-
Depth Bot. Gauge	4999' Ft.	YES Blanked Off	Gas Gravity	-	Surface Pressure	0# psi
BT. P.R.D. No.	1606	12 Hour Clock	Tool Opened	7:03-7:20 A.M. P.M.	Tool Closed	7:18 - 7:35 A.M. P.M.
Initial Hydro Mud Pres.		2466	Remarks	Tool opened @ 7:03 AM - opened for 15 min-		
Initial Closed in Pres.		-	utes - unseated packer and reset - open for 15 min-			
Initial Flow Pres.		1 2 16	utes, still no blow at the surface. Took a 30 min-			
Final Flow Pres.		1 2 33	ute final closed in pressure. Came out of the hole.			
Final Closed in Pres.		1610				
Final Hydro Mud Pres.		2457				

FORMATION TEST DATA

5

Legal Location
Sec. - Twp. - Rng.

4-33-33

Lease Name

Well No.

Test No.

Field Area

N. LIBERAL

County

SEWARD

State

KANSAS

WINCHELL

1-A

1

CITIES SERVICE PETROLEUM COMPANY

Lease Owner/Company Name

LIBERAL, KANSAS
Owner's District

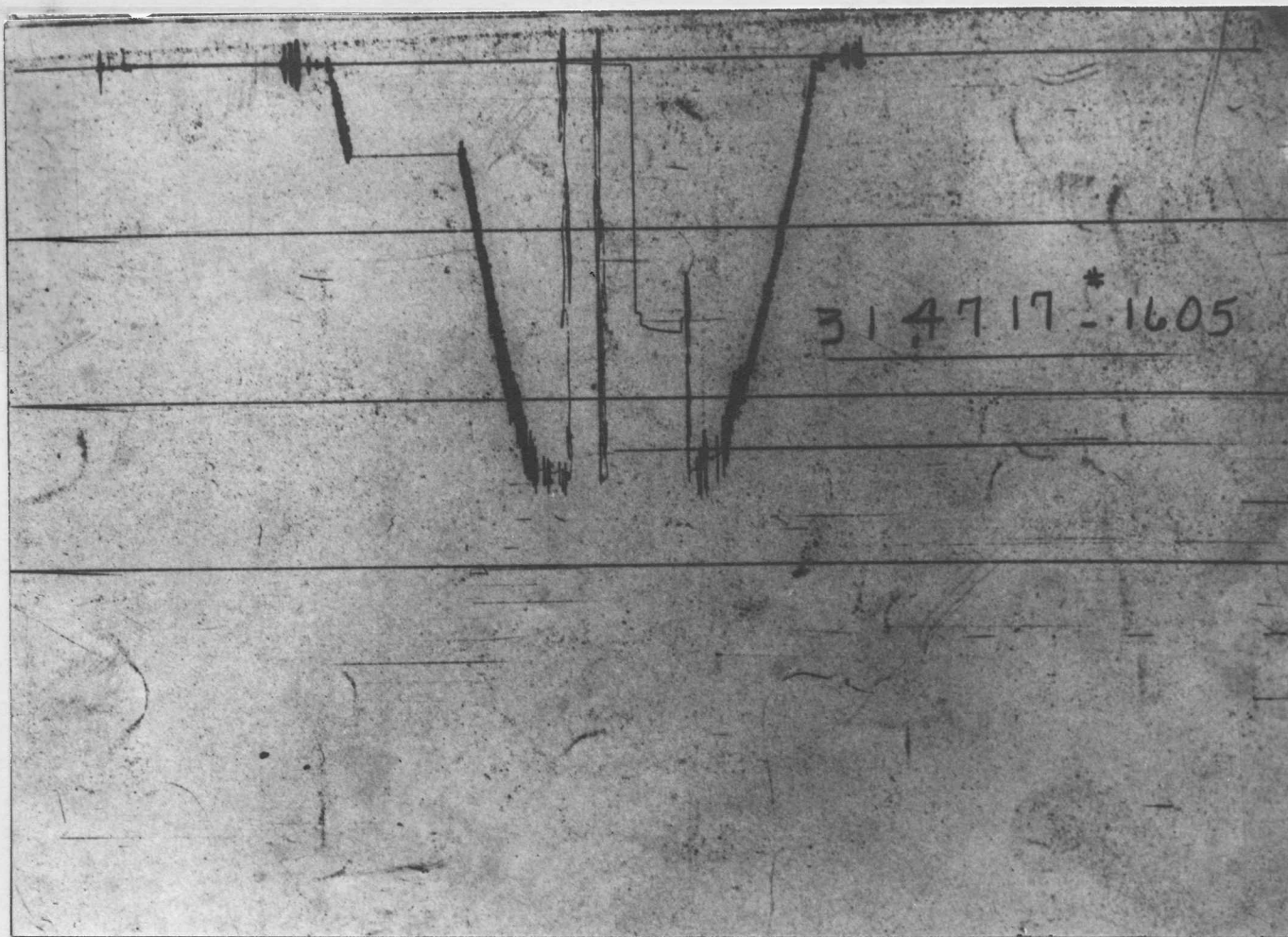
Gauge No.			Depth			Clock			Ticket No.		
1605			4980'			12 hour			314717		
First Flow Period			Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	
P ₀						.000	12	.000		34	
P ₁						.0433	17	.018		1497	
P ₂						.0866	22	.036		1569	
P ₃						.1299	—*	.054		1586	
P ₄						.1732	28	.072		1593	
P ₅						.2165	31	.090		1599	
P ₆						.260	34	.108		1602	
P ₇								.126		1605	
P ₈								.144		1608	
P ₉								.162		1610	
P ₁₀								.180		1611	

Gauge No.			1606			Depth			4999'			Clock		12		hour	
P ₀							.000	16		.000							33
P ₁							.0422	17		.0194							1310
P ₂							.0844	19		.0388							1541
P ₃							.1266	--*		.0582							1575
P ₄							.1688	31		.0776							1589
P ₅							.2110	33		.0970							1596
P ₆							.253	33		.1164							1601
P ₇										.1358							1604
P ₈										.1552							1608
P ₉										.1746							1610
P ₁₀										.194							1610
Reading Interval									5						3		Minutes

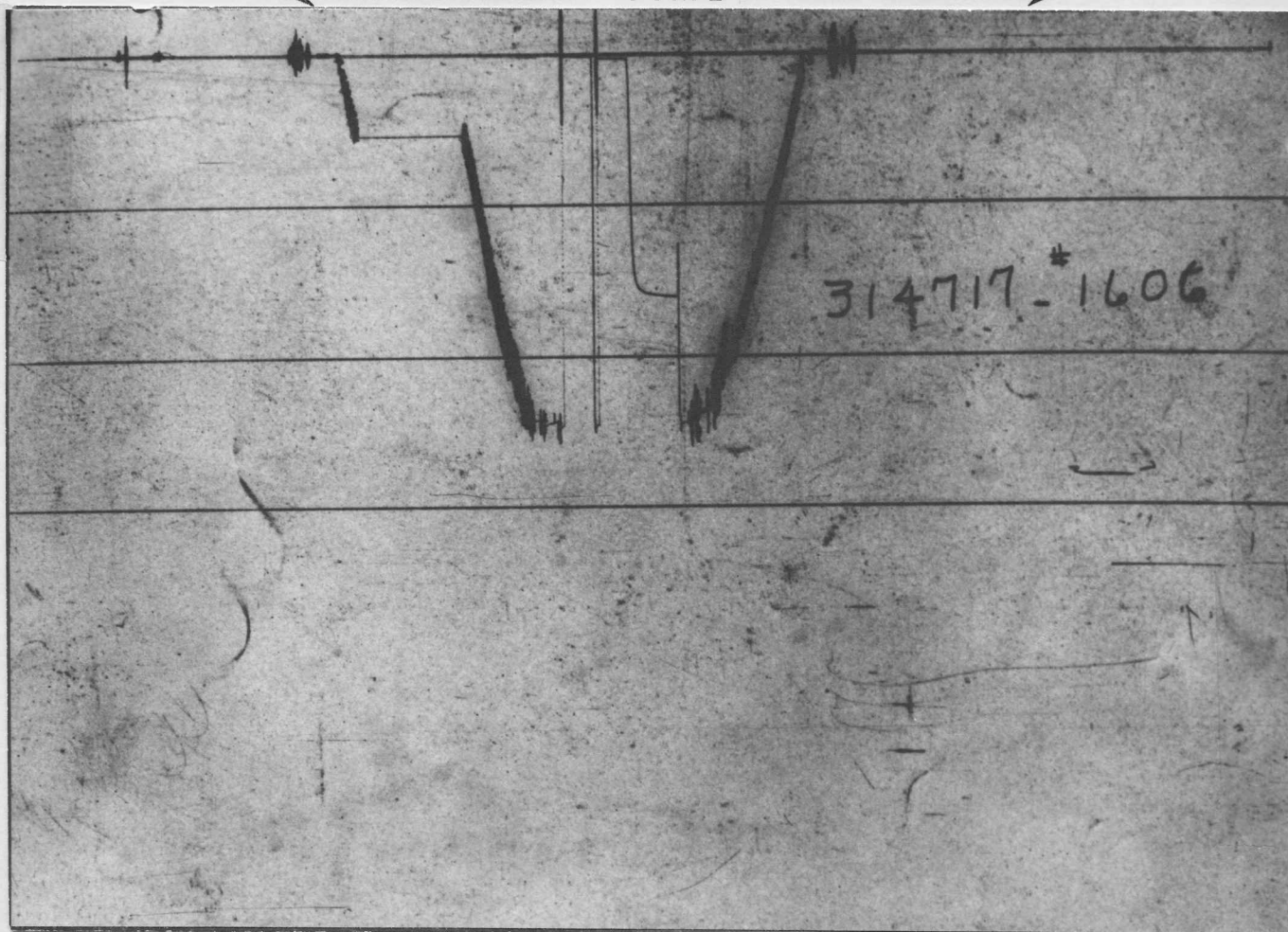
REMARKS: * UNABLE TO READ DUE TO BY-PASSING.

SPECIAL PRESSURE DATA

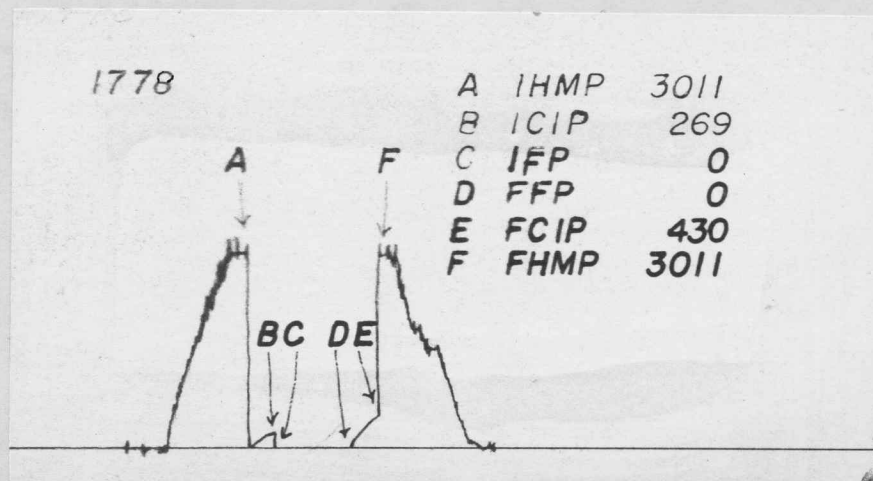
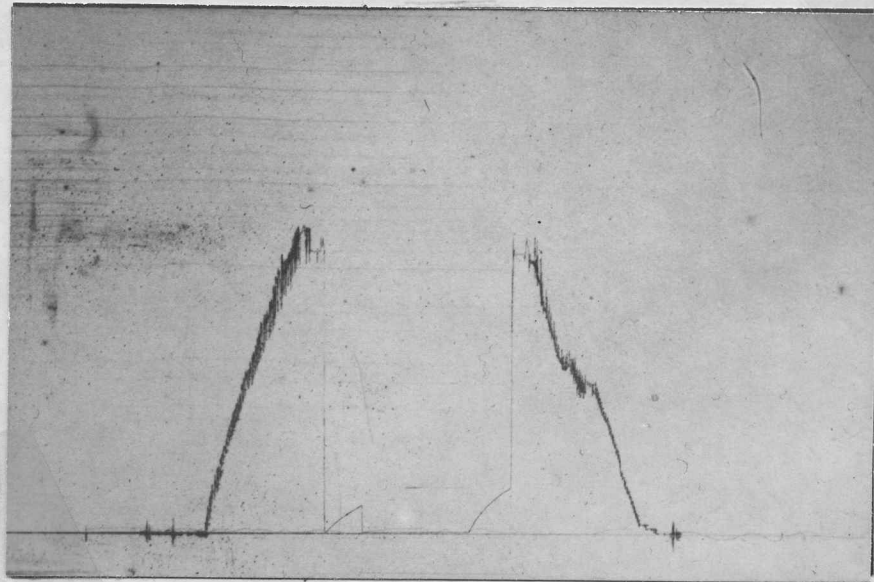
↑
PRESSURE
↓



← TIME →



Each horizontal line equal to 1000 p.s.i.

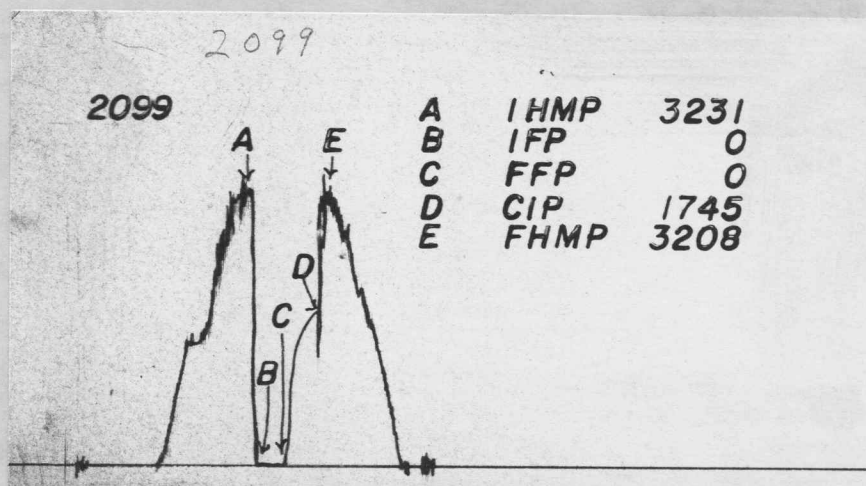
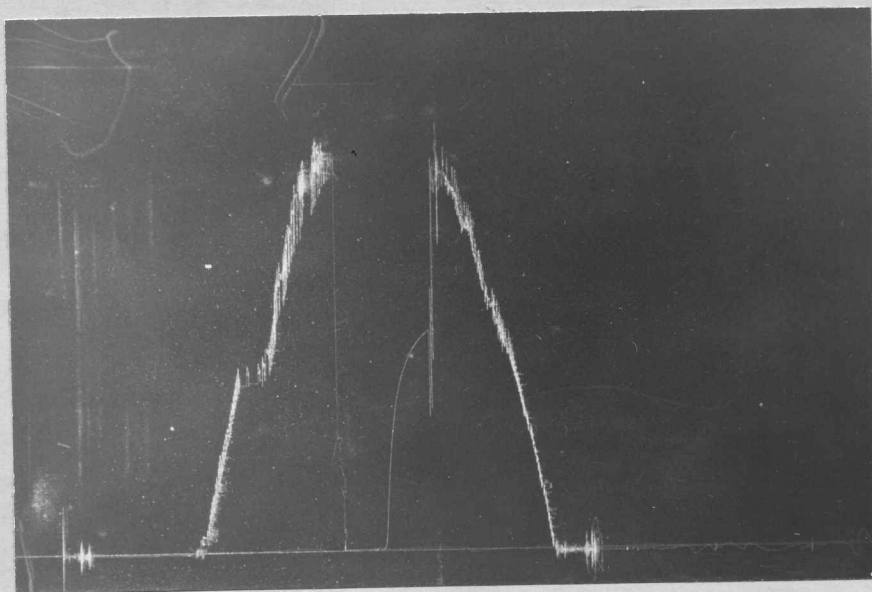


Initial Closed in Time		Minutes	 BOMIN TESTING CO. BOX 782 LIBERAL, KANSAS		Date 4/1/62		LOCATION 4-33-33	
Tool Open Flow Period		30 Minutes			Ticket No. 2099			
Final Closed in Time		30 Minutes			DISTRICT LIBERAL			
Depth Top Gauge	6340 Ft.	Blanked Off No			Kind of Job OPEN HOLE TEST			
Recorder No. 2897		12 Hr. Clock	CONTRACTOR LOHMANN & JOHNSON DRLG. Co.					
Pressure Readings		Field	Office Corrected		HOLE & TOOL DATA			FIELD
Initial Hydro Mud Pressure		3231	Elevation 3110' KB		Top Packer Depth 6333'			
Initial Closed in Pres.			Total Depth 6353'		Bottom Packer Depth			
Initial Flow Pres.		0	Casing or Hole Size 7 7/8"		Size & Type Wall Packer 6 1/2" BT			
Final Flow Pres.		0	Liner or Rathole Size		Size Bottom Choke 1/2"			
Final Closed in Pres.		1745			Size Surface Choke 1"			
Final Hydro Mud Pressure		3208	Interval Tested 6333'-6353'		ID & Length Air Chamber			
Depth Bottom Gauge 6353 Ft.		Blanked Off YES	Formation Tested		ID & Length Drill Collars			
Recorder No. 145		4 Hr. Clock	Est. Gauge Depth Temp. 136		Size Drill Pipe 4 1/2" FH			
Pressure Readings		Field	Office Corrected		MUD DATA Weight 9.3 Viscosity 59			
Initial Hydro Mud Pressure			All depths measured from KB		No. Folders Reproduced 5			
Initial Closed in Pres.			REMARKS: BUBBLED AND DIED.					
Initial Flow Pres.								
Final Flow Pres.								
Final Closed in Pres.								
Final Hydro Mud Pressure								
Recovered		5	Feet of DRILLING MUD					
Recovered			Feet of					
Recovered			Feet of					
Recovered			Feet of					
Witnessed By		R. E. BURLINGAME						
Amount-Type of Cushion		Tester ROY JENKINS						

WINCHELL
 LEASE NAME
 A-1
 WELL NO.
 5
 TEST NO.
 CITIES SERVICE PETROLEUM CO.
 LEASE OWNER
 LIBERAL, KANSAS
 OWNERS DISTRICT

COUNTY SEWARD

STATE KANSAS



JOHNSTON TESTERS, INC.

SURFACE INFORMATION

TOOL, HOLE & MUD DATA

[illegible]

Type Test	CONVENTIONAL					
Formation Tested	CHESTER					
Elevation	2801				Ft.	
All Depths Measured From	DERRICK FLOOR					
TOOL SEQUENCE						
Tool	Size/Type	Depth/Length/ I.D.				
DRILL PIPE	4 $\frac{1}{2}$ " FH	5766'				
		3.80"				
DRILL COLLARS	4 $\frac{1}{2}$ " H-90	180'				
		3.25"				
CIRCULATING SUB	4 $\frac{1}{2}$ " B					
HYDRAULIC TOOL JARS	3 $\frac{1}{2}$ " SI					
	3 $\frac{1}{2}$ " HS-1					
PACKER-BOB TAIL	6 5/8"	5967'				
PERF. ANCHOR	4 $\frac{1}{2}$ " HVY.	23'				
		2.50"				
RECORDER CARRIER	4 7/8" T	6'				
RECORDER CARRIER	4 7/8" L	4'				
Total Depth	6000	Ft.				
Main Hole Size	7 7/8"	Rat Hole Size	6 1/8"x			
Casing Size	-	Liner Size	/17'			
Bottom Choke Size	3/4"	Mud Type	STARCH			
Mud. Wt.	9.1	Mud Viscosity	50			
Air Chamber Length	-	Ft.	-	I.D.		
Cushion Type	Amount	Pressure				
-	-	-				
TIME DATA						
Initial Shut-in	-	Hrs.	-	Mins.		
Flow Period	-	Hrs.	45	Mins.		
Final Shut-in	-	Hrs.	30	Mins.		

Company CITIES SERVICE PETROLEUM COMPANY BOX 1147 LIBERAL, KANSAS Date 3-27-62
Well WINCHELL #A-1 Field N. LIBERAL Location 4-33-33
Test Interval 5967' TO 6000' Formation Test # x Casing Test # -
County SEWARD State KANSAS Field Report No. 63663 L
Tester RALPH W. RINE Test Approved By MR. R. E. BURLINGAME No. DST Reports Requested 5

JOHNSTON TESTERS, INC.

Pressure Data

Field Report No. 63663 L

Recorder No.	T-247				
Capacity (P.S.I.G.)	5000				
Recorder Depth	5995'				
Pressure Gradient P.S.I./Ft.					
Well Temperature °F.	132				
A Initial Hydrostatic Mud	3163				
B Initial Shut-in	-				
C Initial Flow	305				
D Final Flow	537				
E Final Shut-in	*1863				
F Final Hydrostatic Mud	2996				

Remarks:

*Shut in pressure did not reach static reservoir pressure.

