

# NOMENCLATURE

<b>b</b>	= Approximate Radius of Investigation .....	Feet
<b>b<sub>1</sub></b>	= Approximate Radius of Investigation (Net Pay Zone h <sub>1</sub> ) .....	Feet
<b>D.R.</b>	= Damage Ratio .....	—
<b>EI</b>	= Elevation .....	Feet
<b>GD</b>	= B.T. Gauge Depth (From Surface Reference) .....	Feet
<b>h</b>	= Interval Tested .....	Feet
<b>h<sub>1</sub></b>	= Net Pay Thickness .....	Feet
<b>K</b>	= Permeability .....	md
<b>K<sub>1</sub></b>	= Permeability (From Net Pay Zone h <sub>1</sub> ) .....	md
<b>m</b>	= Slope Extrapolated Pressure Plot (Psi <sup>2</sup> /cycle Gas) .....	psi/cycle
<b>OF<sub>1</sub></b>	= Maximum Indicated Flow Rate .....	MCF/D
<b>OF<sub>2</sub></b>	= Minimum Indicated Flow Rate .....	MCF/D
<b>OF<sub>3</sub></b>	= Theoretical Open Flow Potential with/Damage Removed Max. ....	MCF/D
<b>OF<sub>4</sub></b>	= Theoretical Open Flow Potential with/Damage Removed Min. ....	MCF/D
<b>P<sub>s</sub></b>	= Extrapolated Static Pressure .....	Psig.
<b>P<sub>f</sub></b>	= Final Flow Pressure .....	Psig.
<b>P<sub>ot</sub></b>	= Potentiometric Surface (Fresh Water * ) .....	Feet
<b>Q</b>	= Average Adjusted Production Rate During Test .....	bbls/day
<b>Q<sub>1</sub></b>	= Theoretical Production w/Damage Removed .....	bbls/day
<b>Q<sub>g</sub></b>	= Measured Gas Production Rate .....	MCF/D
<b>R</b>	= Corrected Recovery .....	bbls
<b>r<sub>w</sub></b>	= Radius of Well Bore .....	Feet
<b>t</b>	= Flow Time .....	Minutes
<b>t<sub>o</sub></b>	= Total Flow Time .....	Minutes
<b>T</b>	= Temperature Rankine .....	°R
<b>Z</b>	= Compressibility Factor .....	—
<b>μ</b>	= Viscosity Gas or Liquid .....	CP
<b>Log</b>	= Natural Log	

\* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,  
Fresh Water Corrected to 100° F.

Flow Time	1st 5	Min.	2nd 60	Min.	Date	4-17-62	Ticket Number	304378 S
Closed In Pres. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	OPEN HOLE	Halliburton District	HAYS
Pressure Readings	Field		Office Corrected		Tester	SELLERS	Witness	LEACH
Depth Top Gauge	3022	Ft.	no	Blanked Off	Drilling Contractor	PEEL BROTHERS DRILLING, INC.		
BT. P.R.D. No.	232		12	Hour Clock	Elevation	?	Top Packer	3028'
Initial Hydro Mud Pressure			1578		Total Depth	3083'	Bottom Packer	
Initial Closed in Pres.			672		Interval Tested	3028-3083'	Formation Tested	Lancing
Initial Flow Pres.		1	5		Casing or Hole Size	7 7/8"	Casing Perfs. } Top	Bot.
		2	13					
Final Flow Pres.		1	5		Surface Choke	1"	Bottom Choke	5/8"
Final Closed in Pres.			42		Size & Kind Drill Pipe	4 1/2" ACME	Drill Collars Above Tester	I.D. - LENGTH
Final Hydro Mud Pressure			1555		Mud Weight	10	Mud Viscosity	37
Depth Cen. Gauge				Blanked Off	Temperature	100	Anchor Size & Length	ID 3.84" x 55'
BT. P.R.D. No.				Hour Clock	Depths Mea. From	DF	Depth of Tester Valve	3016' Ft.
Initial Hydro Mud Pres.					Cushion	None	Depth Back Pres. Valve	3011' Ft.
Initial Closed in Pres.					Recovered	12	Feet of Mud with 6" free oil on top.	
Initial Flow Pres.		1			Recovered		Feet of	
Final Flow Pres.		1			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	3079	Ft.	yes	Blanked Off	Gas Gravity		Surface Pressure	psi
BT. P.R.D. No.	1462		12	Hour Clock	Tool Opened	12:13	A.M. Tool Closed	2:18
Initial Hydro Mud Pres.	1625		1617		Remarks	Opened for 5 minute first flow.		
Initial Closed in Pres.	710		710		Closed for 30 minute initial closed in			
Initial Flow Pres.	40	1	44		pressure. Reopened for 60 min. 2nd flow.			
Final Flow Pres.	40	1	44		Blow dead in 4 minutes. Closed for 30			
Final Closed in Pres.	70		79		min ute final closed in pressure.			
Final Hydro Mud Pres.	1610		1593					

Legal Location Sec. - Twp. - Range. 33-8-16 1320' N. 50' W. of S.E. Corner

Field Area LATON

County ROOKS

State KANSAS

ADAMS "A"

Well No. 3W

Test No. 1

CITIES SERVICE PETROLEUM CO.

Owner's District RUSSELL

FORMATION TEST DATA

5

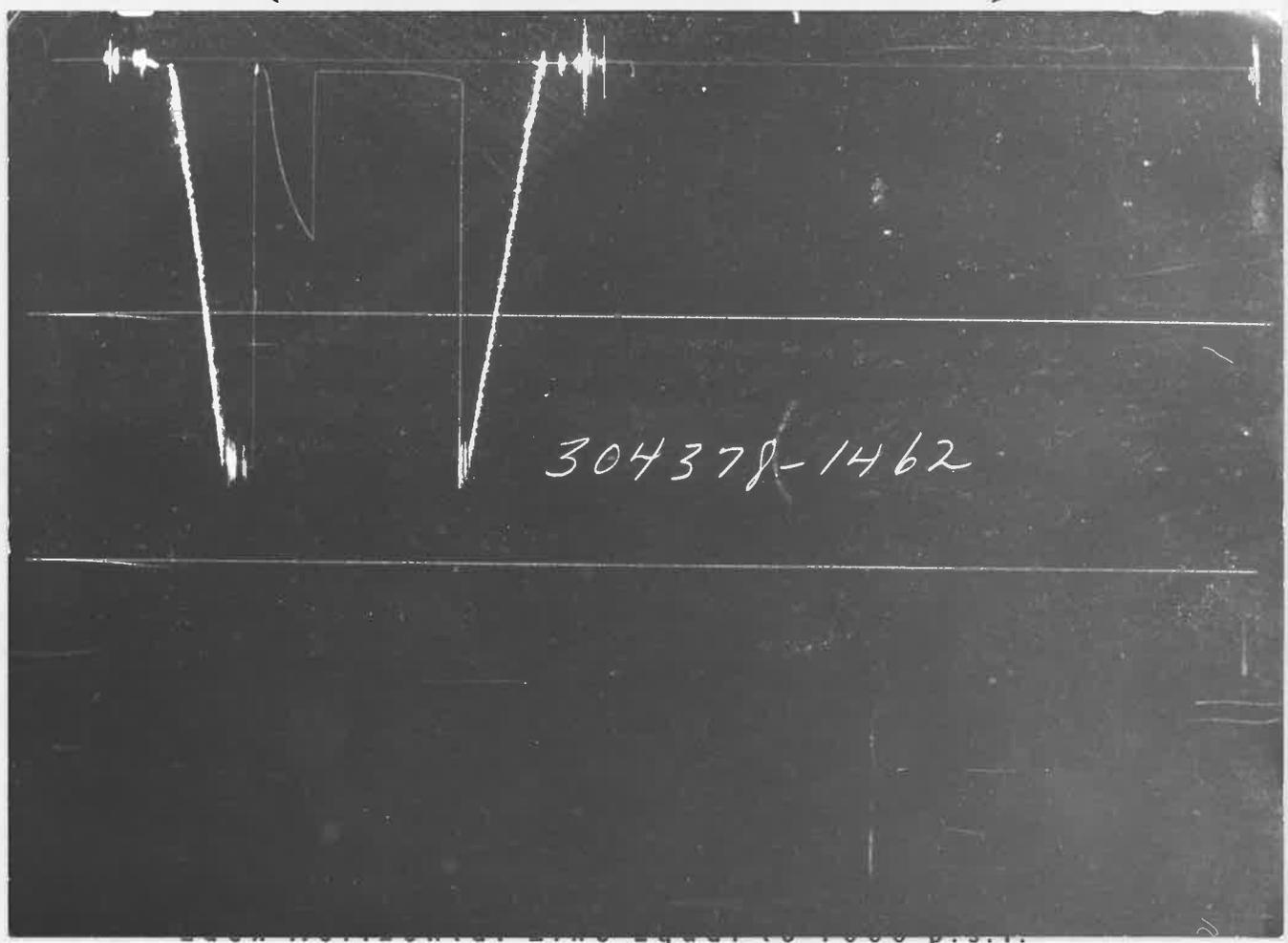
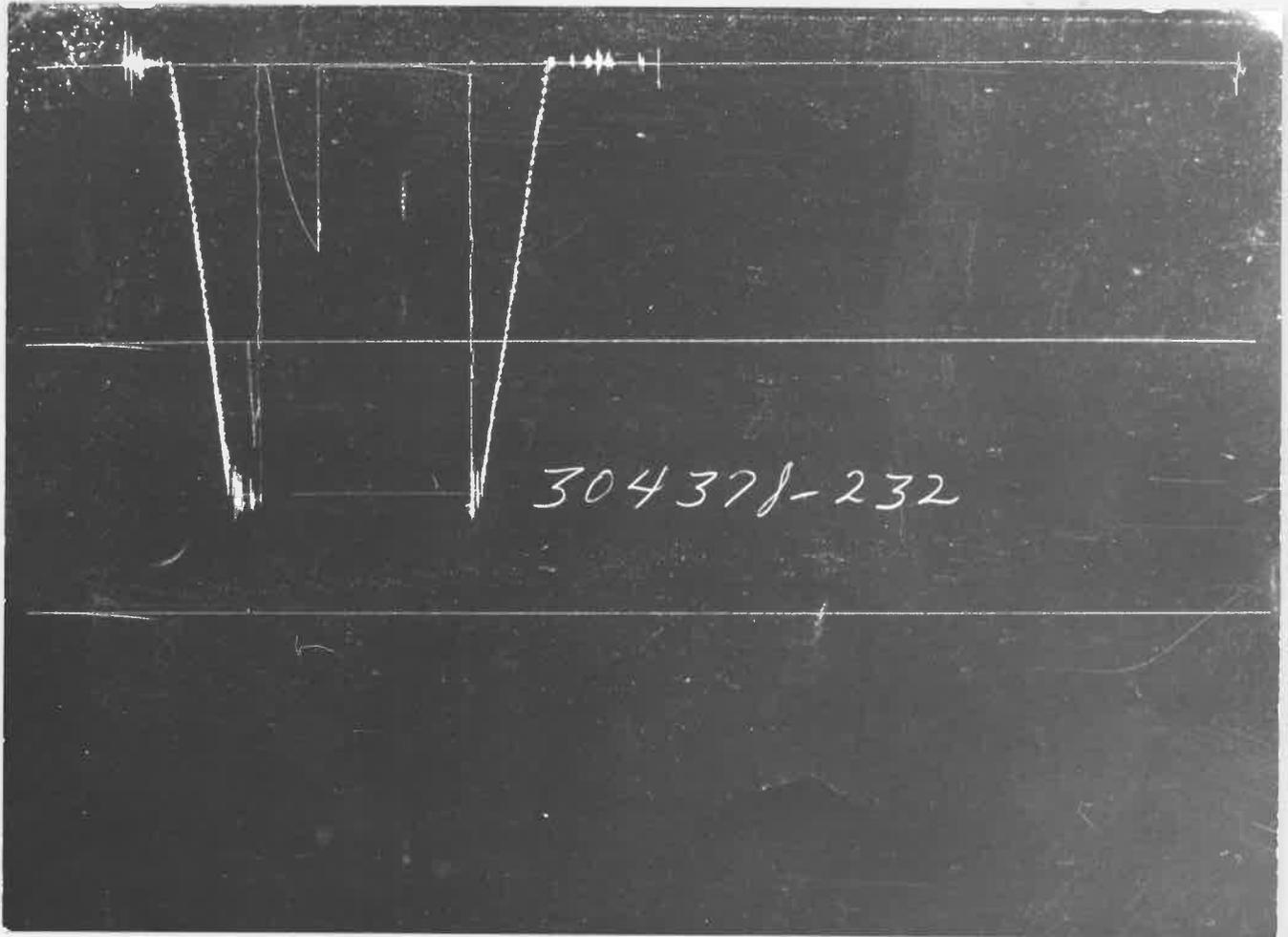
Gauge No. 232		Depth 3022'		Clock 12 hour		Ticket No. 304378				
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	
P <sub>0</sub>	.000	5	.000		5	.000	13	.000		9
P <sub>1</sub>	.028	5	.022		81	.421	9	.191		42
P <sub>2</sub>			.044		219					
P <sub>3</sub>			.066		330					
P <sub>4</sub>			.088		412					
P <sub>5</sub>			.110		471					
P <sub>6</sub>			.132		528					
P <sub>7</sub>			.154		571					
P <sub>8</sub>			.176		611					
P <sub>9</sub>			.198		643					
P <sub>10</sub>			.220		672					

Gauge No. 1462		Depth 3079'		Clock 12 hour				
P <sub>0</sub>	.000	44	.000	44	.000	51	.000	46
P <sub>1</sub>	.033	44	.0205	122	.401	46	.195	79
P <sub>2</sub>			.0410	274				
P <sub>3</sub>			.0615	379				
P <sub>4</sub>			.0820	459				
P <sub>5</sub>			.1025	519				
P <sub>6</sub>			.1230	571				
P <sub>7</sub>			.1435	614				
P <sub>8</sub>			.1640	650				
P <sub>9</sub>			.1845	681				
P <sub>10</sub>			.2050	712				
Reading Interval		3						Minutes

REMARKS:

**SPECIAL PRESSURE DATA**

PRESSURE



Each horizontal line equals 1000 p.s.i.

Flow Time	1st 5	Min.	2nd 60	Min.	Date	4-17-62	Ticket Number	304379 S
Closed In Pres. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	Open Hole	Halliburton District	Hays
Pressure Readings	Field		Office Corrected		Tester	Dub Sellers	Witness	Vic Lynch
Depth Top Gauge	3085	Ft.	No	Blanked Off	Drilling Contractor	Peel Bros. Inc.		
BT. P.R.D. No.	232		12	Hour Clock	Elevation	-	Top Packer	3091'
Initial Hydro Mud Pressure			1613		Total Depth	3141'	Bottom Packer	-
Initial Closed in Pres.			151		Interval Tested	3091-3141'	Formation Tested	Lancing
Initial Flow Pres.		1	11		Casing or Hole Size	7 7/8"	Casing Perfs.	Top
Final Flow Pres.		2	17		Surface Choke	1"	Bottom Choke	5/8"
Final Closed in Pres.		1	12		Size & Kind Drill Pipe	4 1/2" Acme	Drill Collars Above Tester	-
Final Hydro Mud Pressure		2	17		Mud Weight	10	Mud Viscosity	39
Depth Cen. Gauge			69		Temperature	81	Anchor Size ID & Length	3.84" X 50'
BT. P.R.D. No.					Depth Mea. From	DF	Depth of Tester Valve	3078' Ft.
Initial Hydro Mud Pres.					Cushion		Depth Back Pres. Valve	3073' Ft.
Initial Closed in Pres.					Recovered	30	Feet of	mud with oil stain and odor
Initial Flow Pres.		1			Recovered		Feet of	
Final Flow Pres.		2			Recovered		Feet of	
Final Closed in Pres.		1			Recovered		Feet of	
Final Hydro Mud Pres.		2			Oil A.P.I. Gravity		Water Spec. Gravity	
Depth Bot. Gauge	3137	Ft.	Yes	Blanked Off	Gas Gravity		Surface Pressure	psi
BT. P.R.D. No.	1462		12	Hour Clock	Tool Opened	4:51	Tool Closed	6:26
Initial Hydro Mud Pres.	1665		1641		Remarks	Open tool for 5 mins first flow.		
Initial Closed in Pres.	180		178		Closed for 30 mins. Reopen tool with a weak			
Initial Flow Pres.	40	1	37		blow thru out test. Closed for 30 mins.			
Final Flow Pres.	40	2	44					
Final Closed in Pres.	100	1	38					
Final Hydro Mud Pres.	1650	2	42					
Final Closed in Pres.			96					
Final Hydro Mud Pres.			1611					

Legal Location  
 Sec. - Twp. - Rng. 33-8-16  
 Lease Name  
 1320 N-50+ West of SE Cor.  
 Well No. 3-M  
 Test No. 2  
 Field Area  
 Laton  
 County  
 Rocks  
 State  
 Kansas  
 ADAMS "A"  
 CITIES SERVICE PETROLEUM CO.  
 Lease Owner/Company Name  
 RUSSELL  
 Owner's District

FORMATION TEST DATA

5

Gauge No. 232		Depth 3085'			Clock 12 hour		Ticket No. 304379				
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure				
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\bullet}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\bullet}$	PSIG Temp. Corr.		
P <sub>0</sub>	.000	11	.000		12		.000	17	.000		17
P <sub>1</sub>	.034	12	.0202		38		.414	17	.216		69
P <sub>2</sub>			.0404		61						
P <sub>3</sub>			.0606		80						
P <sub>4</sub>			.0808		96						
P <sub>5</sub>			.1010		110						
P <sub>6</sub>			.1212		122						
P <sub>7</sub>			.1414		131						
P <sub>8</sub>			.1616		138						
P <sub>9</sub>			.1818		145						
P <sub>10</sub>			.2020		151						

Gauge No. 1462		Depth 3137'			Clock 12 hour						
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\bullet}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\bullet}$	PSIG Temp. Corr.		
P <sub>0</sub>	.000	37	.000		38		.000	44	.000		42
P <sub>1</sub>	.036	38	.0194		66		.408	42	.198		96
P <sub>2</sub>			.0388		89						
P <sub>3</sub>			.0582		110						
P <sub>4</sub>			.0776		125						
P <sub>5</sub>			.0970		138						
P <sub>6</sub>			.1164		150						
P <sub>7</sub>			.1358		160						
P <sub>8</sub>			.1552		168						
P <sub>9</sub>			.1746		174						
P <sub>10</sub>			.1940		178						

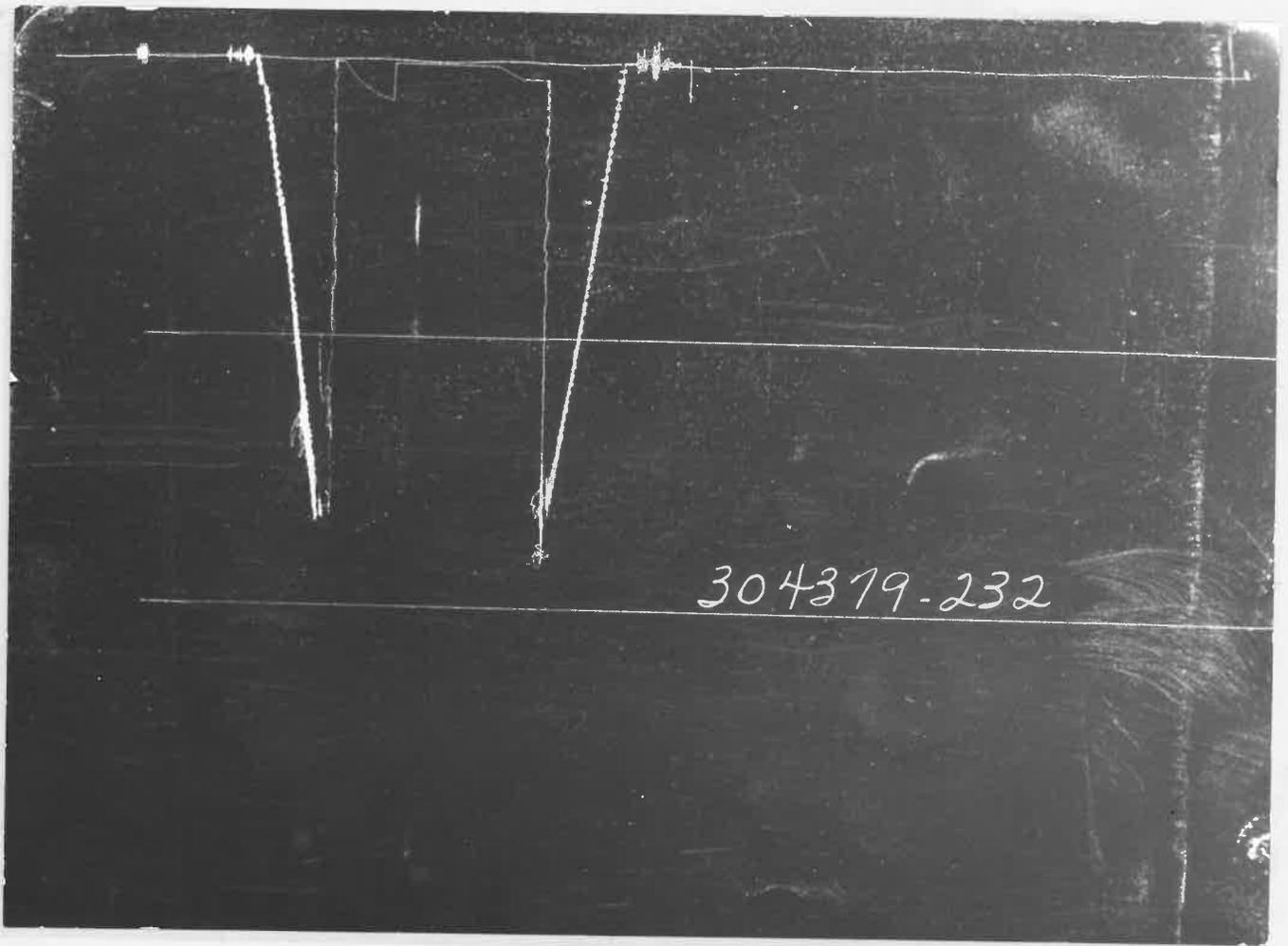
Reading Interval

3

Minutes

REMARKS:

**SPECIAL PRESSURE DATA**



Each Horizontal Line Equal to 1000 p.s.i.

Flow Time	1st 5	Min.	2nd 60	Min.	Date	4-18-62	Ticket Number	304380 S
Closed In Press. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	Open Hole	Halliburton District	Hays
Pressure Readings	Field		Office Corrected		Tester	Dub Sellers	Witness	Vic Lynch
Depth Top Gauge	3150	Ft.	No	Blanked Off	Drilling Contractor	Peel Bros., Inc.		
BT. P.R.D. No.	232		12	Hour Clock	Elevation	-	Top Packer	3148'
Initial Hydro Mud Pressure			1621		Total Depth	3181'	Bottom Packer	-
Initial Closed in Pres.			438		Interval Tested	3148-3181'	Formation Tested	KC
Initial Flow Pres.		1	8		Casing or Hole Size	7 7/8"	Casing Perfs.	Top
Final Flow Pres.		2	23		Surface Choke	1"	Bottom Choke	5/8"
Final Closed in Pres.		1	11		Size & Kind Drill Pipe	1 1/2" Acme	Drill Collars Above Tester	-
Final Hydro Mud Pressure		2	35		Mud Weight	10	Mud Viscosity	40
Depth Cen. Gauge			399		Temperature	82	Anchor Size & Length	ID 3.28 OD 5" X 33'
BT. P.R.D. No.				Hour Clock	Depths Meas. From	DF	Depth of Tester Valve	3137 Ft.
Initial Hydro Mud Pres.					Cushion		Depth Back Pres. Valve	Ft.
Initial Closed in Pres.					Recovered	100	Feet of gas	
Initial Flow Pres.		1			Recovered	70	Feet of very oily mud, gassy	
Final Flow Pres.		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	3177	Ft.	Yes	Blanked Off	Gas Gravity		Surface Pressure	psi
BT. P.R.D. No.	1462		12	Hour Clock	Tool Opened	8:22	Tool Closed	9:57
Initial Hydro Mud Pres.	1655		1643		Remarks	Open tool for 5 mins first flow.		
Initial Closed in Pres.	460		462			Closed for 30 mins. Reopen tool for 60 mins		
Initial Flow Pres.	20	1	26			flow period. Closed for 30 mins.		
Final Flow Pres.	20	1	30					
Final Closed in Pres.	420		423					
Final Hydro Mud Pres.	1650		1621					

ADAMS "A" 3-W 3  
 Lease Name  
 Well No.  
 Test No.  
 Field Area  
 IATON  
 Country  
 ROCKS  
 State  
 KANSAS  
 Legal Location  
 Sec. - Twp. - Rng. Sec. 33-8-16  
 1320' N 50' West of S. E. Cor.  
 CITIES SERVICE PETROLEUM CO.  
 Lease Owner/Company Name  
 RUSSELL  
 Owner's District

FORMATION TEST DATA

5

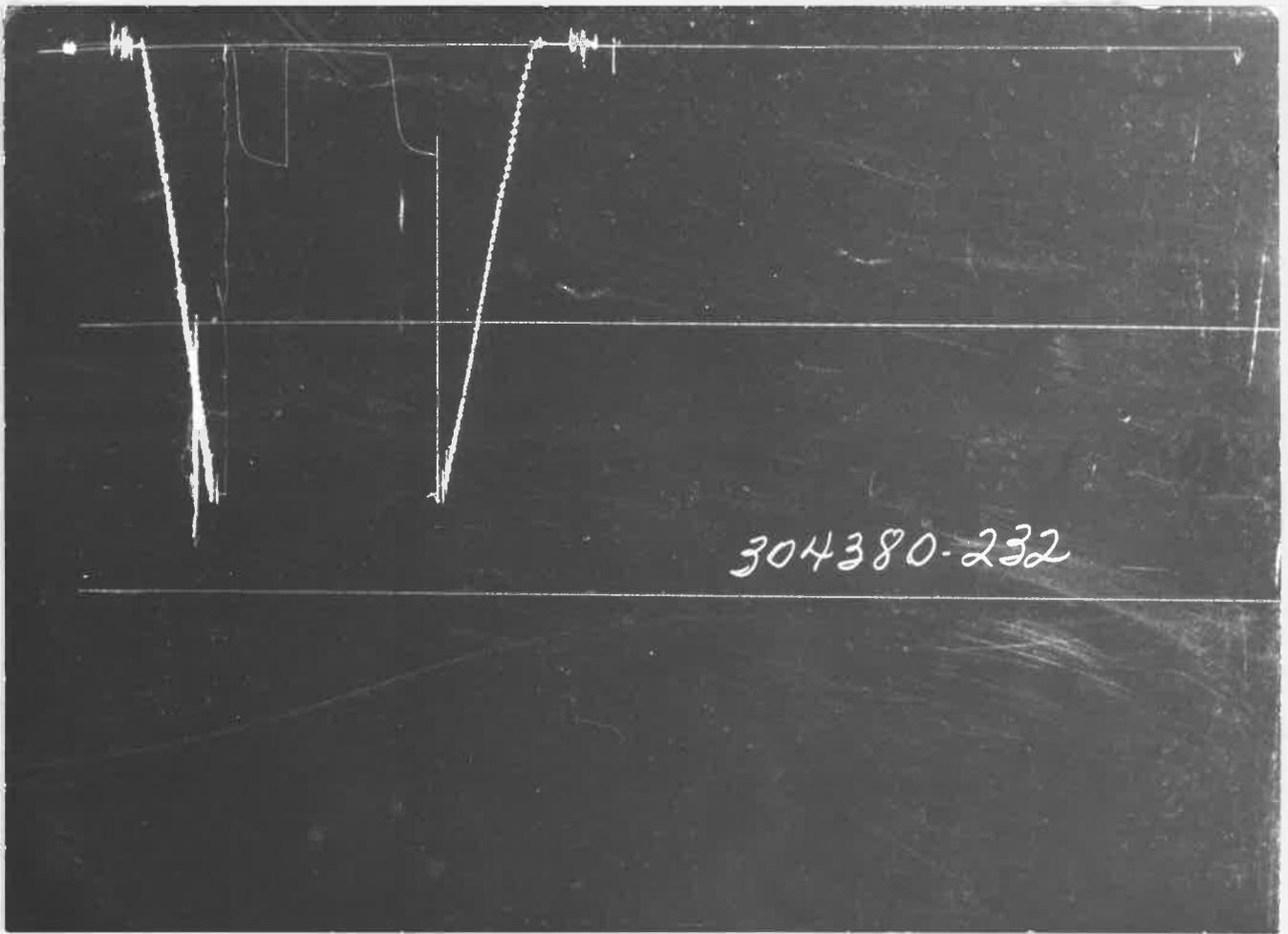
Gauge No. 232		Depth 3150'			Clock 12 hour		Ticket No. 304380			
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\bullet}{\bullet}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\bullet}{\bullet}$	PSIG Temp. Corr.
P <sub>0</sub>	.000	8	.000		11	.000	23	.000		35
P <sub>1</sub>	.026	11	.0225		191	.1028	19	.0206		111
P <sub>2</sub>			.0450		366	.2056	23	.0412		264
P <sub>3</sub>			.0675		392	.3084	29	.0618		339
P <sub>4</sub>			.0900		404	.4110	35	.0824		366
P <sub>5</sub>			.1125		412			.1030		378
P <sub>6</sub>			.1350		419			.1236		384
P <sub>7</sub>			.1575		423			.1442		390
P <sub>8</sub>			.1800		429			.1648		393
P <sub>9</sub>			.2025		433			.1854		397
P <sub>10</sub>			.2250		438			.2060		399

Gauge No. 1462		Depth 3177'			Clock 12 hour					
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\bullet}{\bullet}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\bullet}{\bullet}$	PSIG Temp. Corr.
P <sub>0</sub>	.000	26	.000		30	.000	40	.000		54
P <sub>1</sub>	.030	30	.021		335	.100	38	.0193		130
P <sub>2</sub>			.042		403	.200	44	.0386		308
P <sub>3</sub>			.063		422	.300	49	.0579		370
P <sub>4</sub>			.084		431	.400	54	.0772		391
P <sub>5</sub>			.105		439			.0965		402
P <sub>6</sub>			.126		444			.1158		408
P <sub>7</sub>			.147		449			.1351		413
P <sub>8</sub>			.168		453			.1544		417
P <sub>9</sub>			.189		458			.1737		421
P <sub>10</sub>			.210		462			.1930		423
Reading Interval		3			15		3			Minutes

REMARKS:

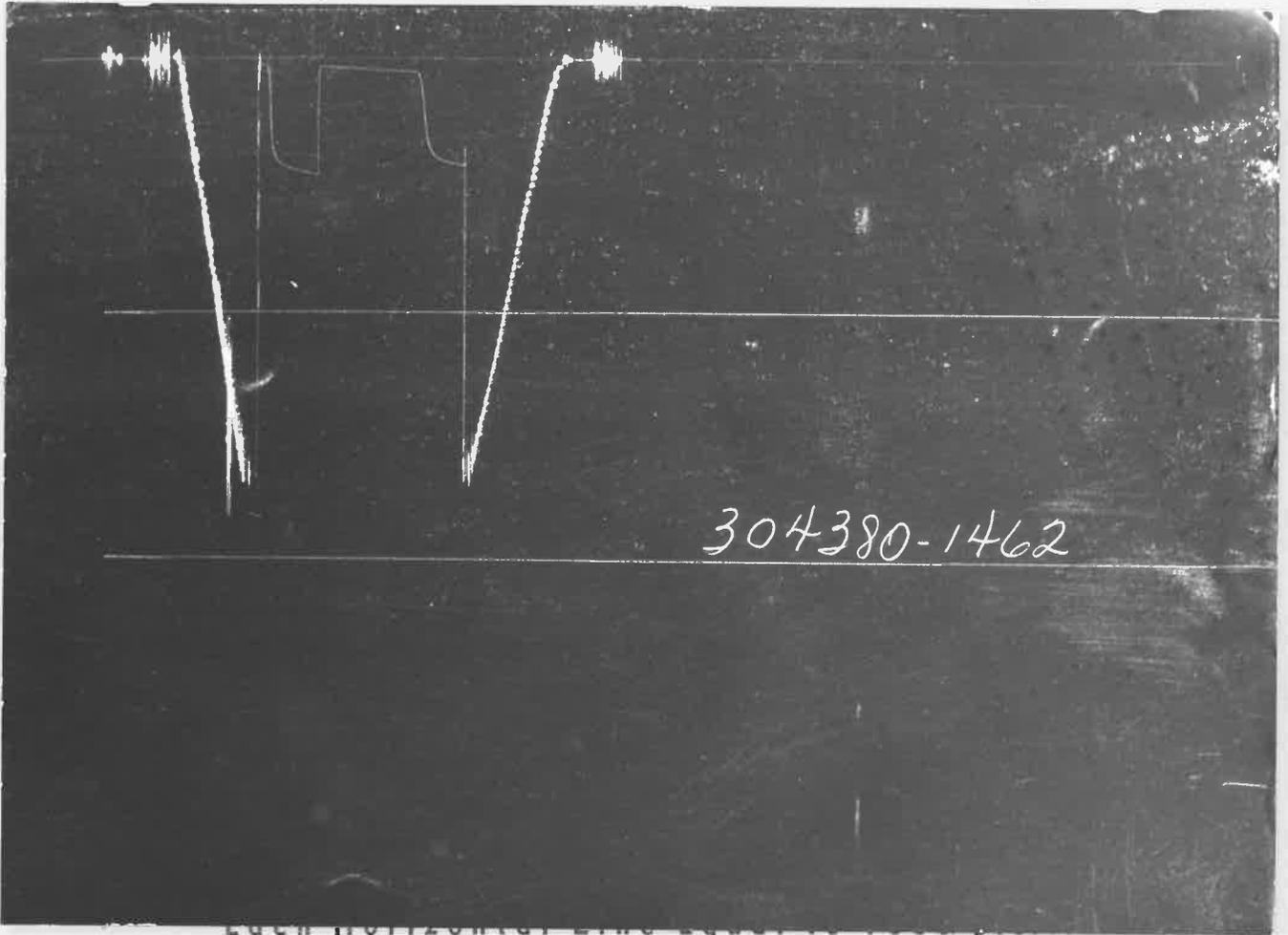
**SPECIAL PRESSURE DATA**

↑  
PRESSURE  
↓



304380-232

← TIME →



304380-1462

EACH HORIZONTAL LINE EQUALS 100 PSI

Flow Time	1st 6 Min.	2nd 60 Min.	Date	4-19-62	Ticket Number	304381
Closed In Pres. Time	1st 30 Min.	2nd 30 Min.	Kind of Job	Open Hole	Halliburton District	Hays
Pressure Readings	Field	Office Corrected	Tester	Dub Sellers	Witness	Vic Lynch
Depth Top Gauge	3195 Ft.	no Blanked Off	Drilling Contractor	PEEL BROTHERS INCORPORATED		
ST. P.R.D. No.	232	12 Hour Clock	Elevation	-	Top Packer	3193'
Initial Hydro Mud Pressure		1650	Total Depth	3221'	Bottom Packer	-
Initial Closed in Pres.		80	Interval Tested	28'	Formation Tested	Kansas City
Initial Flow Pres.		1 23	Casing or Hole Size	7 7/8"	Casing } Top	
		2 23			Perfs. } Bot.	
Final Flow Pres.		1 23	Surface Choke	1"	Bottom Choke	5/8"
		2 23				
Final Closed in Pres.		24	Size & Kind Drill Pipe	4 1/2" Acme	Drill Collars Above Tester	-
Final Hydro Mud Pressure		1641	Mud Weight	10.1	Mud Viscosity	46
Depth Con. Gauge		Blanked Off	Temperature	82 °F Est. °F Actual	Anchor Size & Length	ID 3.28 OD 5" X 28'
ST. P.R.D. No.		Hour Clock	Depths Meas. From	Derrick floor	Depth of Tester Valve	3186' Ft.
Initial Hydro Mud Pres.			Cushion	None	Depth Back Pres. Valve	3181' Ft.
Initial Closed in Pres.			Recovered	6	Feet of drilling mud	
Initial Flow Pres.		1	Recovered		Feet of	
		2				
Final Flow Pres.		1	Recovered		Feet of	
		2				
Final Closed in Pres.			Recovered		Feet of	
Final Hydro Mud Pres.			Oil A.P.I. Gravity		Water Spec. Gravity	
Depth Bot. Gauge	3217- Ft.	yes Blanked Off	Gas Gravity		Surface Pressure	psi
ST. P.R.D. No.	1462	12 Hour Clock	Tool Opened	4:00	A.M. P.M. Tool Closed	5:36 A.M. P.M.
Initial Hydro Mud Pres.	1675	1649	Remarks	Tool opened - blow dead in 3		
Initial Closed in Pres.	80	75		minutes.		
Initial Flow Pres.	10	1 15				
	10	2 15				
Final Flow Pres.	10	1 15				
	10	2 15				
Final Closed in Pres.	20	21				
Final Hydro Mud Pres.	1665	1639				

Legal Location 1329 SEC 8 358' West of SE Corner of LATON ROOKS State KANSAS  
 Sec. - Twp. - Rng. 16

ADAMS "A"  
 Lease Name  
 Well No. 3W  
 Test No. 4  
 CITIES SERVICE PET. COMPANY  
 Lease Owner/Company Name  
 RUSSELL  
 Owner's District

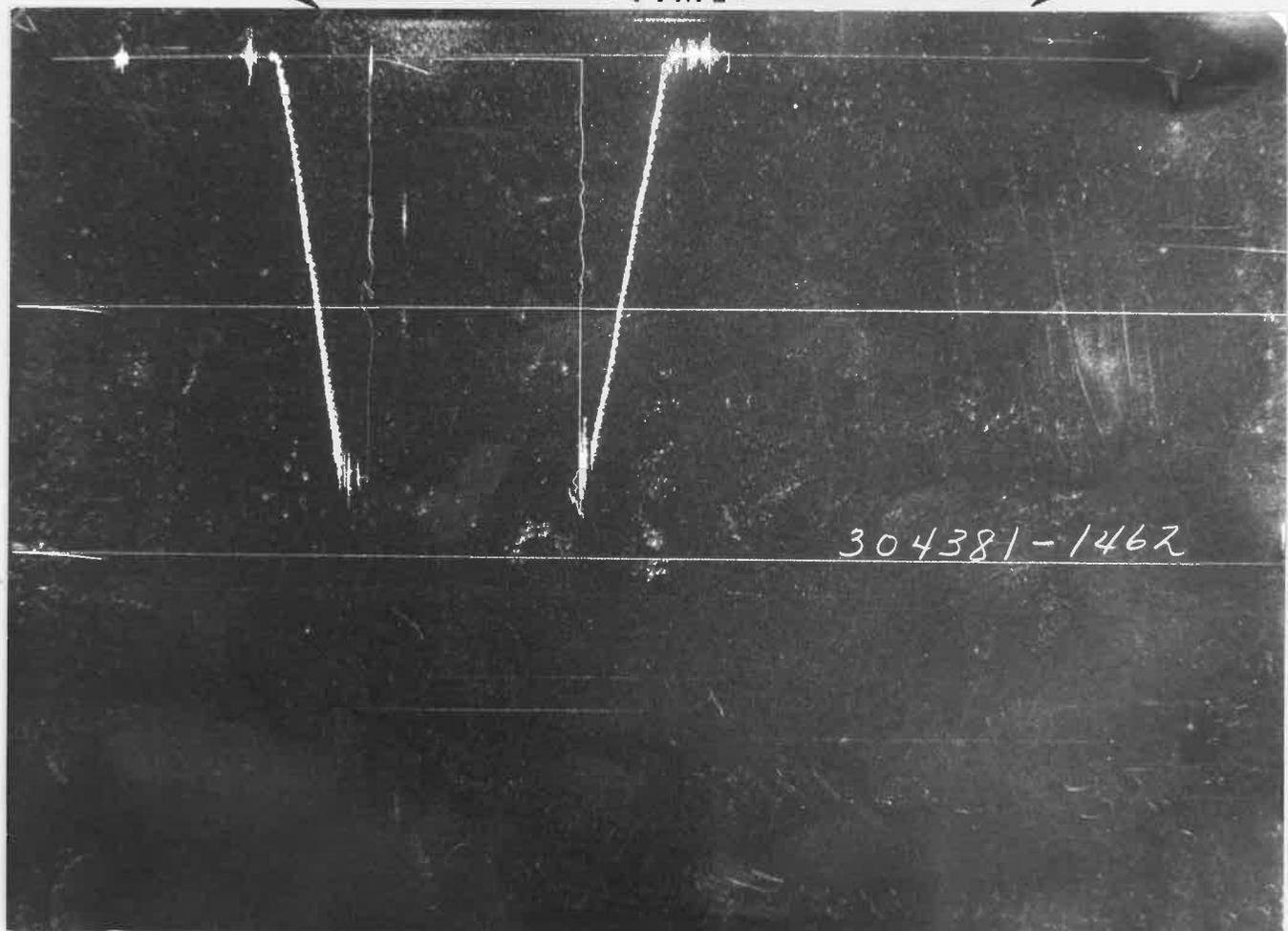
FORMATION TEST DATA

5

PRESSURE



304381-232



304381-1462

Each Horizontal Line Equal to 1000 p.s.i.

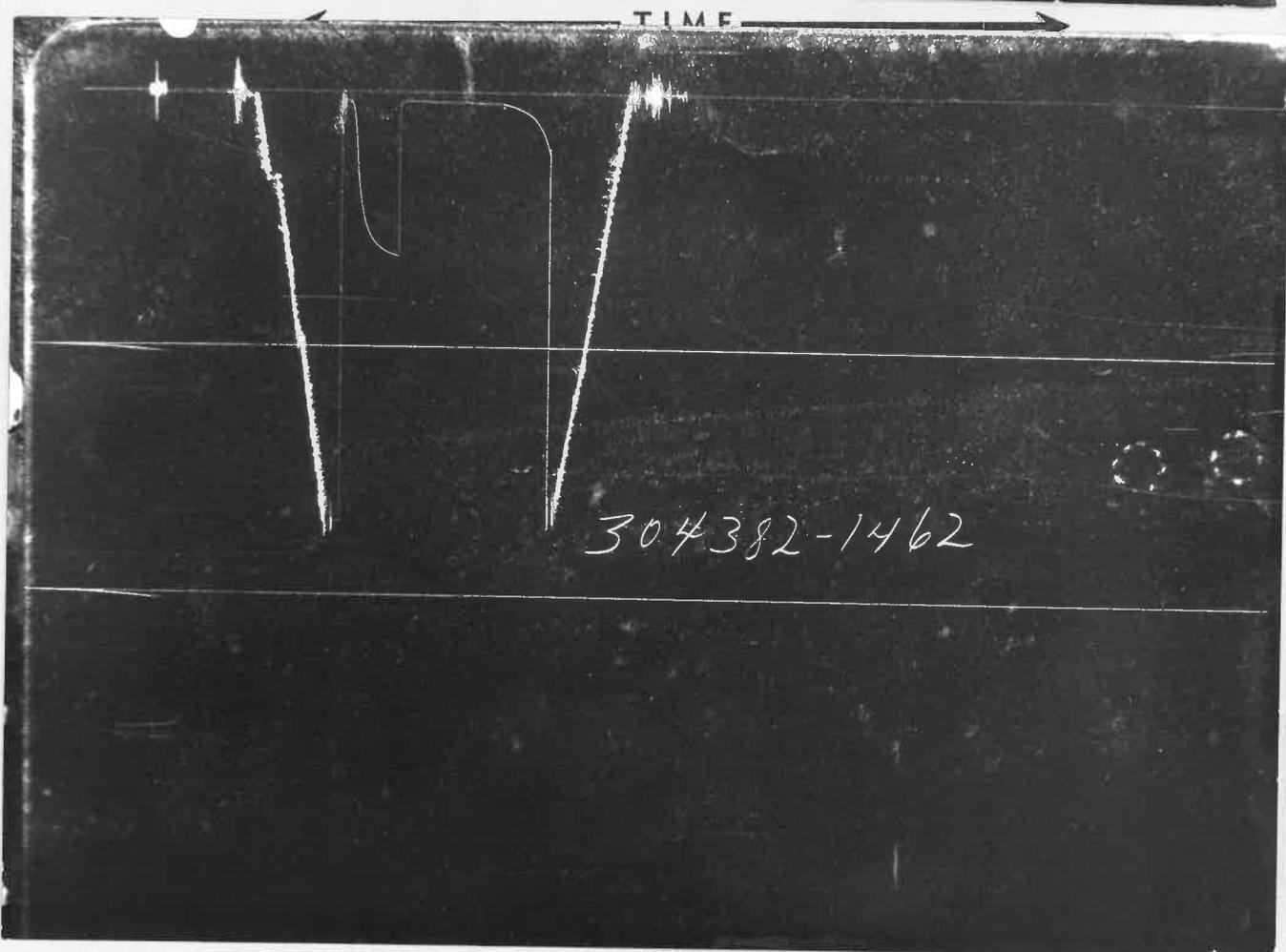
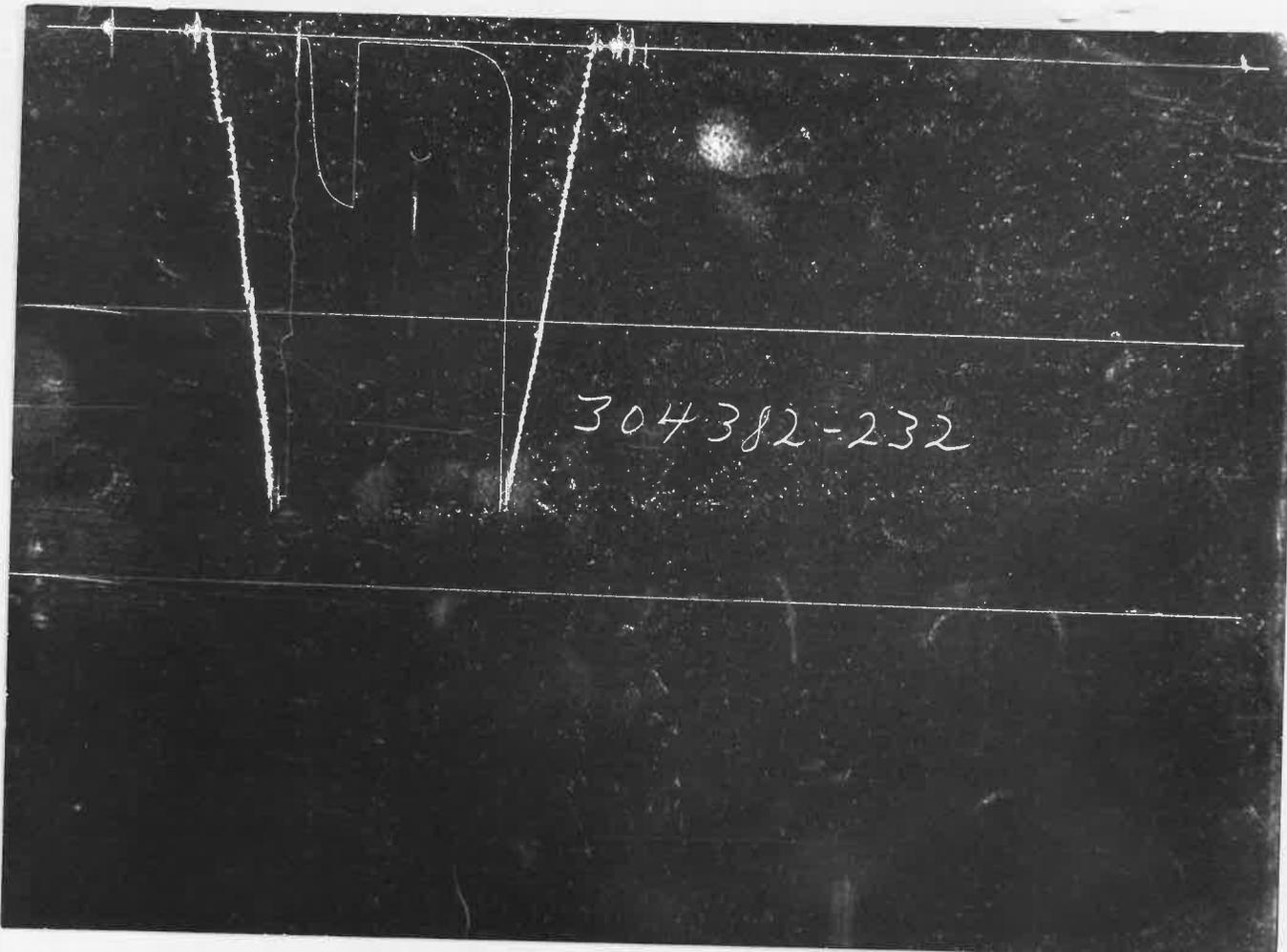


Gauge No. 232		Depth 3227'		Clock 12 hour		Ticket No. 304382				
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P <sub>0</sub>	.000	7	.000		11	.000	23	.000		18
P <sub>1</sub>	.032	11	.0212		103	.416	18	.207		208
P <sub>2</sub>			.0424		329					
P <sub>3</sub>			.0636		457					
P <sub>4</sub>			.0848		520					
P <sub>5</sub>			.1060		553					
P <sub>6</sub>			.1272		576					
P <sub>7</sub>			.1484		589					
P <sub>8</sub>			.1696		600					
P <sub>9</sub>			.1908		607					
P <sub>10</sub>			.2120		612					

Gauge No. 1462		Depth 3264'		Clock 12 hour	
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P <sub>0</sub>	.000	32	.000		34
P <sub>1</sub>	.031	34	.0198		121
P <sub>2</sub>			.0396		385
P <sub>3</sub>			.0594		498
P <sub>4</sub>			.0792		554
P <sub>5</sub>			.0990		585
P <sub>6</sub>			.1188		604
P <sub>7</sub>			.1386		619
P <sub>8</sub>			.1584		628
P <sub>9</sub>			.1782		636
P <sub>10</sub>			.1980		640
Reading Interval			3		
			Minutes		

REMARKS:

**SPECIAL PRESSURE DATA**



Each Horizontal Line Equal to 1000 p.s.i.

Flow Time	1st 5	Min.	2nd 60	Min.	Date	4-20-62	Ticket Number	304383	S
Closed in Pres. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	OPEN HOLE	Halliburton District	HAYS	
Pressure Readings	Field		Office Corrected		Tester	SELLERS	Witness	MABRY	
Depth Top Gauge	3163	Ft.	no	Blanked Off	Drilling Contractor	PEEL BROTHERS DRILLING, INC.			
BT. P.R.D. No.	232		12	Hour Clock	Elevation		Top Packer	3171'	
Initial Hydro Mud Pressure	1655		1643		Total Depth	3224'	Bottom Packer		
Initial Closed in Pres.	1085		1095		Interval Tested	3171-3224'	Formation Tested	Kansas city	
Initial Flow Pres.	5	1	4		Casing or Hole Size	7 7/8"	Casing Perfs.	Top	
	5	2	14					Bot.	
Final Flow Pres.	10	1	5		Surface Choke	1/4"	Bottom Choke	5/8"	
Final Closed in Pres.	940		962		Size & Kind Drill Pipe	4 3/8" ACME	Drill Collars Above Tester	I.D. - LENGTH	
Final Hydro Mud Pressure	1650		1643		Mud Weight	9.8	Mud Viscosity	45	
Depth Con. Gauge		Ft.		Blanked Off	Temperature	82	*F Est. Anchor Size & Length	ID 3.84"	X 53'
BT. P.R.D. No.				Hour Clock	Depths Meas. From	DF	Depth of Tester Valve	3161' Ft.	
Initial Hydro Mud Pres.					TYPE	AMOUNT	Depth Back Pres. Valve	3156' Ft.	
Initial Closed in Pres.					Cushion	None			
Initial Flow Pres.		1			Recovered	25	Feet of	Slightly gas cut drlg. mud with a few scattered oil spots.	
Final Flow Pres.		2			Recovered		Feet of		
Final Closed in Pres.		1			Recovered		Feet of		
Final Hydro Mud Pres.		2			Recovered		Feet of		
Depth Bot. Gauge	3220	Ft.	yes	Blanked Off	Oil A.P.I. Gravity		Water Spec. Gravity		
BT. P.R.D. No.	1462		12	Hour Clock	Gas Gravity		Surface Pressure	psi	
Initial Hydro Mud Pres.			1702		Tool Opened	11:45	A.M. P.M.	Tool Closed	1:50
Initial Closed in Pres.			1132		Remarks	Opened for 5 min. 1st flow. Closed for 30 min. ICIP. Reopened with a very weak blow, for 60 min. 2nd flow. Closed for 30 min. final closed in pressure.			
Initial Flow Pres.		1	37						
Final Flow Pres.		2	49						
Final Closed in Pres.		1	38						
Final Hydro Mud Pres.		2	49						
Final Closed in Pres.			1002						
Final Hydro Mud Pres.			1702						

Adams "A"  
 Lease Name  
 3308-16  
 N 150' W of Sec. 09.  
 Field Area  
 IATON  
 County  
 ROOKS  
 State  
 KANSAS  
 Well No.  
 3W  
 Test No.  
 6  
 CITIES SERVICE PETROLEUM CO.  
 Lease Owner/Company Name  
 RUSSELL  
 Owner's District

FORMATION TEST DATA

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Gauge No. 232		Depth 3163'		Clock 12 hour		Ticket No. 304383				
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 <sub>0</sub>	.000	4	.000		5	.000	14	.000		13
P <sub>1</sub>	.028	5	.0215		1455	.422	13	.0205		127
P <sub>2</sub>			.0430		736			.0410		1450
P <sub>3</sub>			.0645		882			.0615		635
P <sub>4</sub>			.0860		954			.0820		746
P <sub>5</sub>			.1075		998			.1025		818
P <sub>6</sub>			.1290		1031			.1230		866
P <sub>7</sub>			.1505		1055			.1435		901
P <sub>8</sub>			.1720		1072			.1640		925
P <sub>9</sub>			.1935		1084			.1845		947
P <sub>10</sub>			.2150		1095			.2050		962

Gauge No. 1462		Depth 3220'		Clock 12 hour					
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.				
P <sub>0</sub>	.000	37	.000	38	.000	49	.000		49
P <sub>1</sub>	.028	38	.0203	579	.415	49	.0191		260
P <sub>2</sub>			.0406	818			.0382		559
P <sub>3</sub>			.0609	936			.0573		714
P <sub>4</sub>			.0812	1002			.0764		806
P <sub>5</sub>			.1015	1045			.0955		868
P <sub>6</sub>			.1218	1075			.1146		911
P <sub>7</sub>			.1421	1097			.1337		942
P <sub>8</sub>			.1624	1112			.1528		966
P <sub>9</sub>			.1827	1124			.1719		985
P <sub>10</sub>			.2030	1132			.1910		1002

Reading Interval

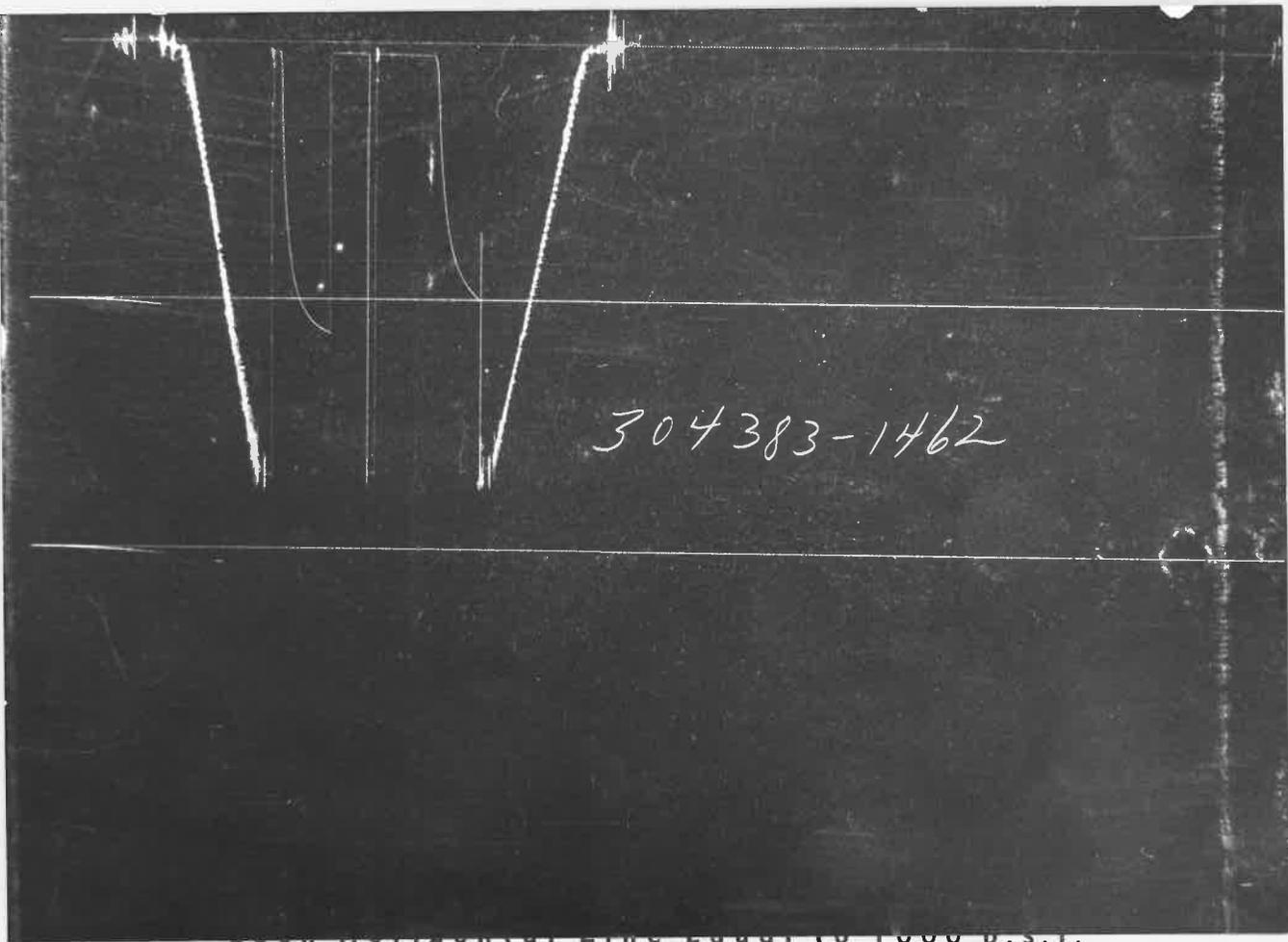
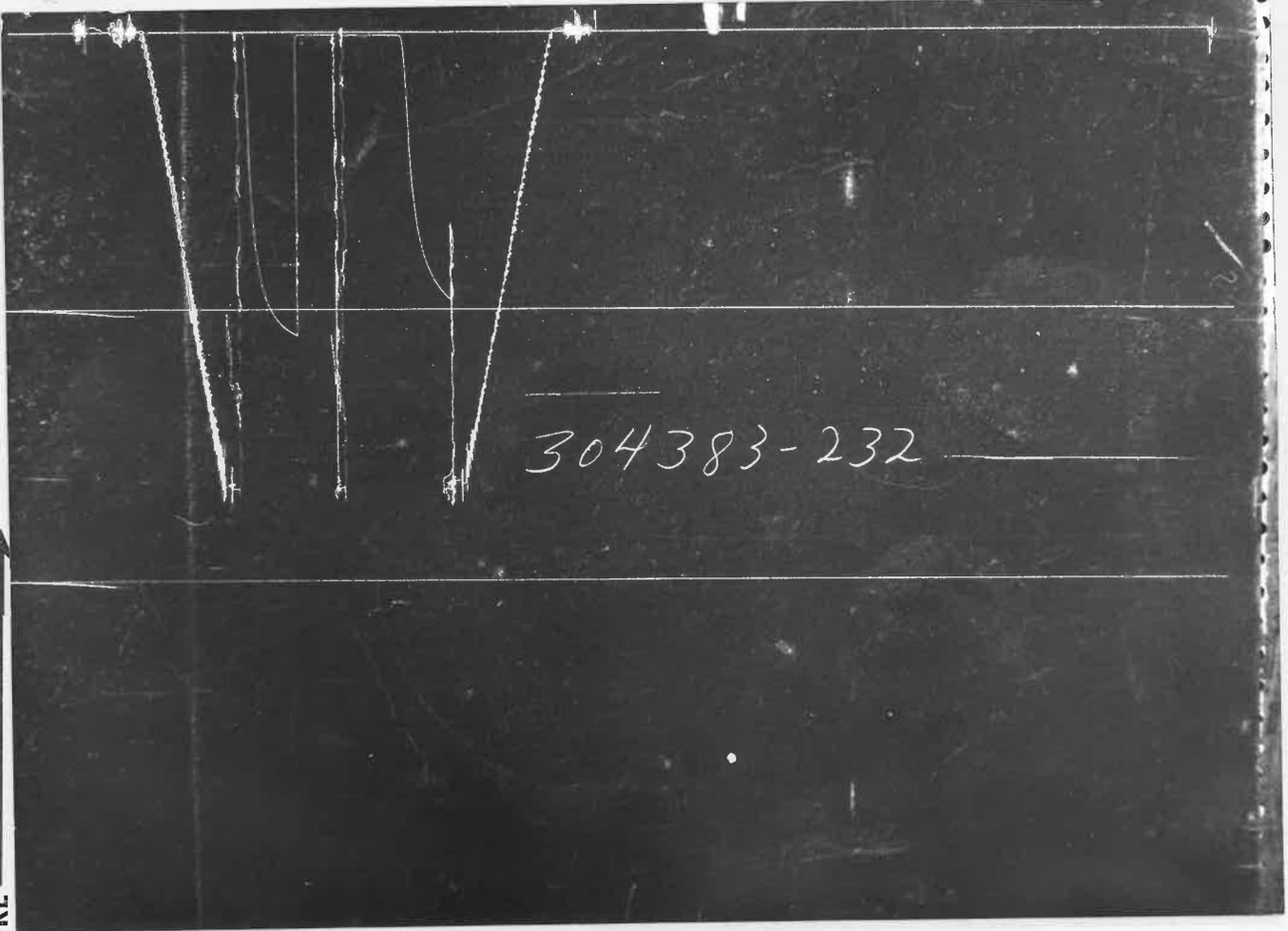
3

3

Minutes

REMARKS:

**SPECIAL PRESSURE DATA**



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