

Flow Time	1st 5	Min.	2nd 60	Min.	Date	7-31-64	Ticket Number	423046 S
Closed In Press. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND
Pressure Readings	Field		Office Corrected		Tester	WALKER	Witness	F. MC COLLUM
Depth Top Gauge	4266	Ft.	No	Blanked Off	Drilling Contractor	PEEL BROS. INC.	JM	
BT. P.R.D. No.	1463		12	Hour Clock	Elevation	2270'	Top Packer	-
Initial Hydro Mud Pressure	2355		2246		Total Depth	4287'	Bottom Packer	4271'
Initial Closed in Pres.	1273		1278		Interval Tested	4271-4287'	Formation Tested	Ft. Scott
Initial Flow Pres.	27	1	22		Casing or Hole Size	7 7/8"	Casing Perfs.	Top
	45	2	42					Bot.
Final Flow Pres.	36	1	27		Surface Choke	1"	Bottom Choke	3/4"
	136	2	137					I.D. - LENGTH
Final Closed in Pres.	952		960		Size & Kind Drill Pipe	4 1/2" ACME	Drill Collars Above Tester	
Final Hydro Mud Pressure	2336		2239		Mud Weight	10	Mud Viscosity	46
Depth Cen. Gauge		Ft.		Blanked Off	Temperature	111	Anchor Size & Length	ID 3 1/2" OD 4 1/2" X 16
BT. P.R.D. No.				Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	4260' Ft.
Initial Hydro Mud Pres.			960		Cushion	-	Depth Back Pres. Valve	Ft.
Initial Closed in Pres.			2239		Recovered	3000	Feet of Gas	
Initial Flow Pres.		1			Recovered	194	Feet of Free oil	
Final Flow Pres.		1			Recovered	189	Feet of Slight mud cut oil	
Final Closed in Pres.					Recovered		Feet of	
Final Hydro Mud Pres.			2245		Oil A.P.I. Gravity	36	Water Spec. Gravity	
Depth Bot. Gauge	4283	Ft.	Yes	Blanked Off	Gas Gravity		Surface Pressure	psi
BT. P.R.D. No.	396		12	Hour Clock	Tool Opened	10:42	Tool Closed	A.M. P.M.
Initial Hydro Mud Pres.	2318		2265		Remarks	Tool opened with a good blow for a 5 minute		
Initial Closed in Pres.	1275		1282			first flow. Rotated tool for a 30 minute initial		
Initial Flow Pres.	26	1	43			closed in pressure. Reopened tool with a good		
	35	2	50			blow, same throughout test. Took a 30 minute		
Final Flow Pres.	35	1	36			final closed in pressure.		
	131	2	141					
Final Closed in Pres.	959		965					
Final Hydro Mud Pres.	2283		2247					

FORMATION TEST DATA

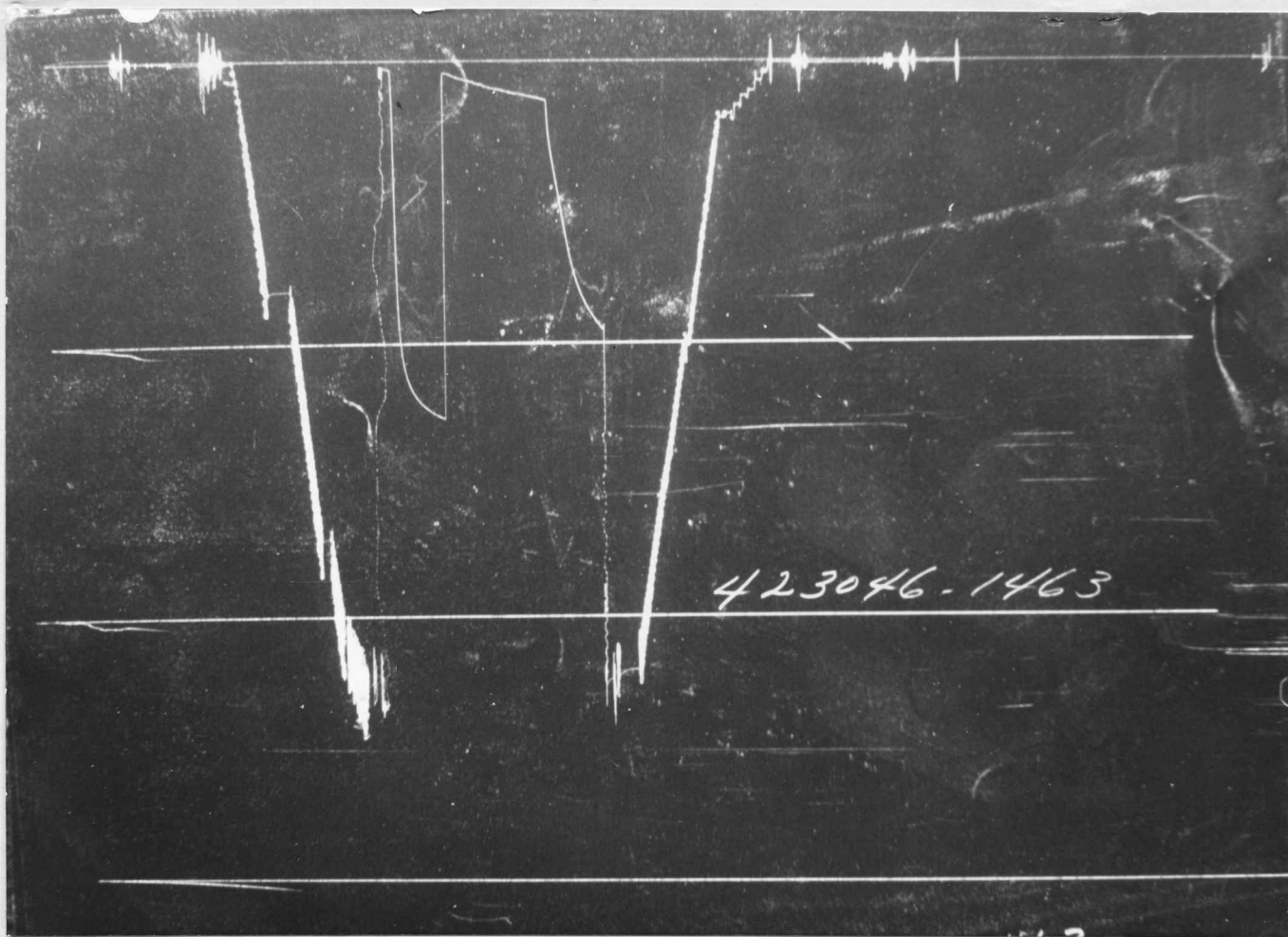
SPECIAL PRESSURE DATA

Gauge No. 1463			Depth 4266			Clock 12 hour		Ticket No. 423046		
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	22	.000		27	.000	42	.000		137
P ₁	.0064	20	.021		778	.103	66	.0224		348
P ₂	.0128	22	.042		1059	.206	94	.0448		466
P ₃	.0192	24	.063		1141	.309	114	.0672		587
P ₄	.0256	25	.084		1185	.412	137	.0896		694
P ₅	.0320	27	.105		1213			.1120		775
P ₆			.126		1233	.106	94	.1344		833
P ₇			.147		1249	.309	114	.1568		875
P ₈			.168		1262	.412	137	.1792		909
P ₉			.189		1271			.2016		937
P ₁₀			.210		1278			.2240		969

Gauge No. 396			Depth 4283			Clock 12 hour				
P ₀	.000	43	.000		36	.000	50	.000		141
P ₁	.006	33	.0218		521	.103	73	.0225		333
P ₂	.012	32	.0436		1011	.206	102	.0450		450
P ₃	.018	32	.0654		1135	.309	119	.0675		566
P ₄	.024	34	.0872		1185	.412	141	.0900		675
P ₅	.030	36	.1090		1214			.1125		767
P ₆			.1308		1236			.1350		830
P ₇			.1526		1252	.309	119	.1575		876
P ₈			.1744		1264	.412	141	.1800		912
P ₉			.1962		1274			.2025		942
P ₁₀			.2180		1282			.2250		965
Reading Interval 1			30659			15		3 Minutes		
REMARKS:										

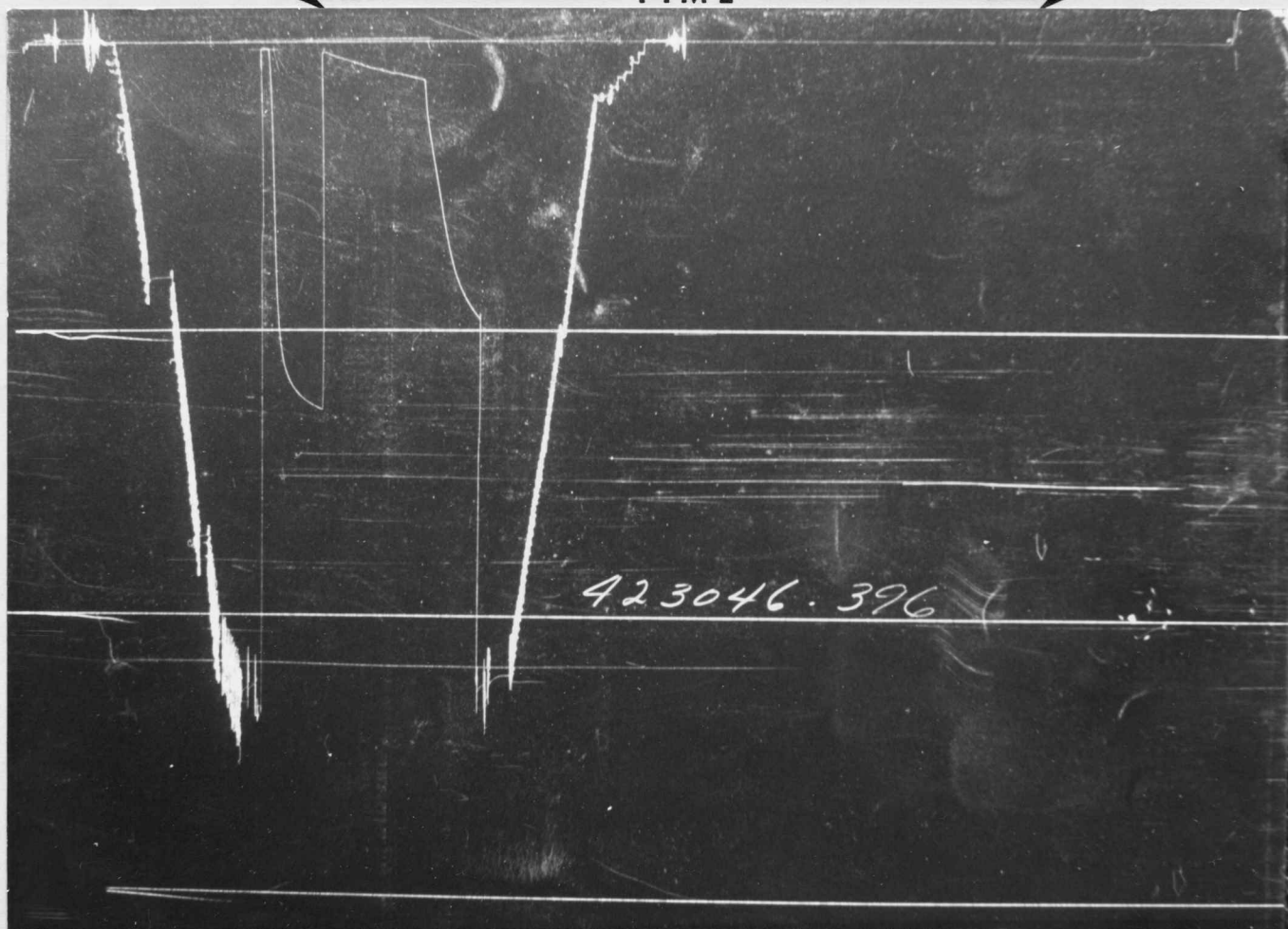
SPECIAL PRESSURE DATA

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PRESSURE
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← TIME →

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

Flow Time	1st 7 Min.	2nd 60 Min.	Date	8-2-64	Ticket Number	423047 - S
Closed In Press. Time	1st 45 Min.	2nd 45 Min.	Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND
Pressure Readings	Field	Office Corrected	Tester	MR. WALKER	Witness	MR. CRAIG
Depth Top Gauge	4356 Ft.	NO Blanked Off	Drilling Contractor	PEEL BROTHERS INCORPORATED	IC	
BT. P.R.D. No.	1463	12 Hour Clock	Elevation	2270'	Top Packer	-
Initial Hydro Mud Pressure	2346	2330	Total Depth	4379'	Bottom Packer	4363'
Initial Closed in Pres.	1375	1373	Interval Tested	4363'-4379'	Formation Tested	MISSISSIPPI
Initial Flow Pres.	18 1 20		Casing or Hole Size	7 7/8"	Casing Perfs. { Top Bot.	-
Final Flow Pres.	36 1 33		Surface Choke	1"	Bottom Choke	3/4" I.D. - LENGTH
Final Closed in Pres.	1366	1368	Size & Kind Drill Pipe	4 1/2"	Drill Collars Above Tester	-
Final Hydro Mud Pressure	2317	2267	Mud Weight	10	Mud Viscosity	47
Depth Cen. Gauge		Blanked Off	Temperature	111 °F Est. °F Actual	Anchor Size & Length	3 1/2" ID 4 1/2" OD X 16'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHINGS	Depth of Tester Valve	4352' Ft.
Initial Hydro Mud Pres.			TYPE AMOUNT		Depth Back Pres. Valve	- Ft.
Initial Closed in Pres.			Cushion	-		
Initial Flow Pres.	1		Recovered	83 Feet of	Slightly muddy oil	
Final Flow Pres.	2		Recovered	377 Feet of	Muddy oil	
Final Closed in Pres.	1		Recovered	660 Feet of	Gas	
Final Hydro Mud Pres.	2		Recovered			
Depth Bot. Gauge	4377 Ft.	YES Blanked Off	Oil A.P.I. Gravity	36	Water Spec. Gravity	-
BT. P.R.D. No.	396	12 Hour Clock	Gas Gravity	-	Surface Pressure	- psi
Initial Hydro Mud Pres.	2354	2335	Tool Opened	6:43 PM A.M. P.M.	Tool Closed	8:35 PM A.M. P.M.
Initial Closed in Pres.	1398	1373	Remarks	Opened tool for 7 minute 1st flow with weak blow. Closed tool for 45 minute initial closed in pressure. Reopened tool for 60 minute 2nd flow with weak blow increasing to good and decreasing to fair by end of test. Closed tool for 45 minute final closed in pressure.		
Initial Flow Pres.	26 1 27					
Final Flow Pres.	52 2 44					
Final Closed in Pres.	35 1 33					
Final Hydro Mud Pres.	174 2 179					

FORMATION TEST DATA

SPECIAL PRESSURE DATA

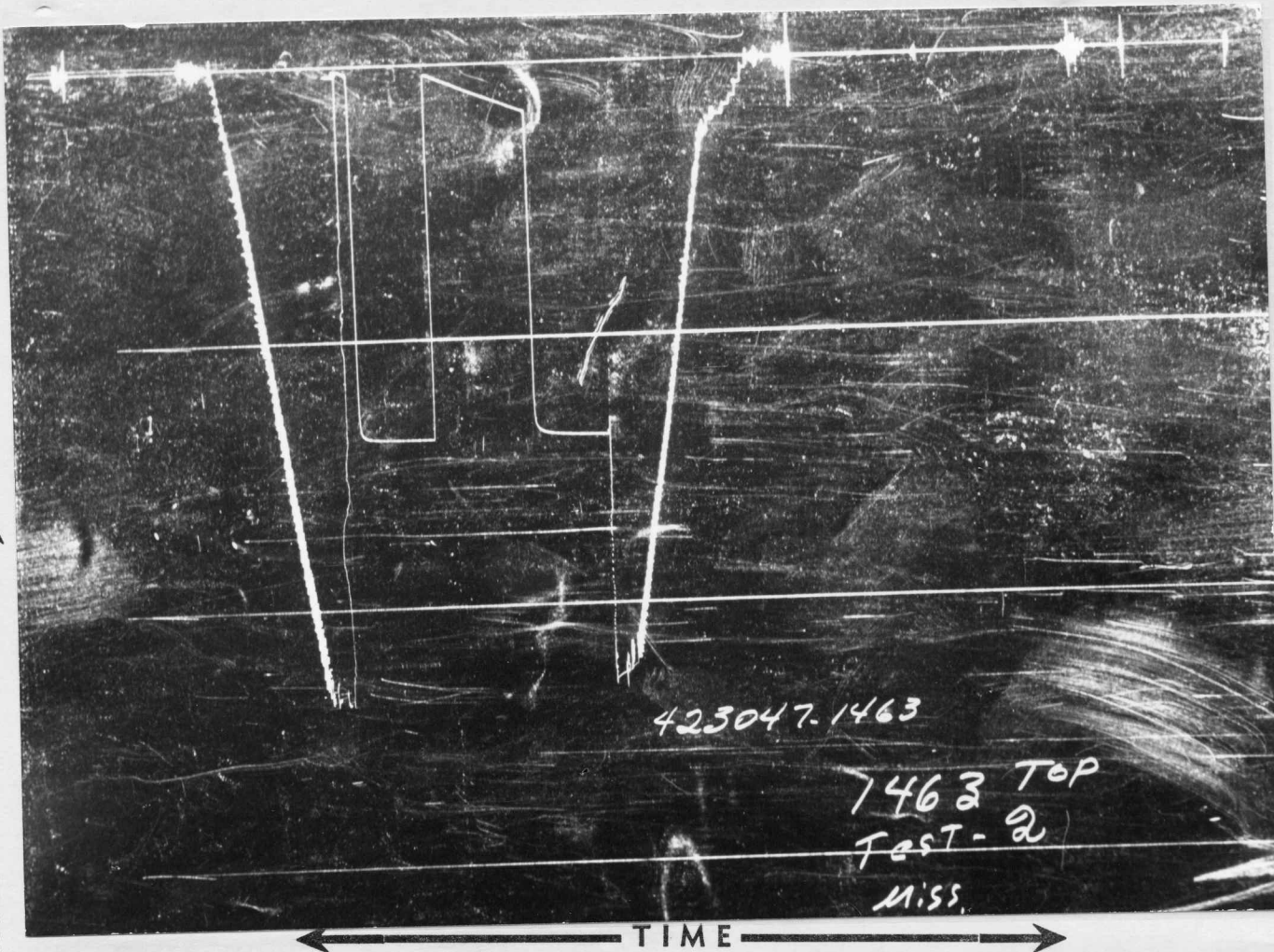
Gauge No. 1463			Depth 4356'			Clock 12 hour		Ticket No. 423047		
First Flow Period			Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀	.000	20	.000		33	.000	38	.000		180
P ₁	.0069	19	.0312		1360	.1013	72	.0304		1348
P ₂	.0138	19	.0624		1367	.2026	110	.0608		1357
P ₃	.0207	22	.0936		1370	.3039	145	.0912		1362
P ₄	.0276	24	.1248		1371	.4050	180	.1216		1364
P ₅	.0345	26	.1560		1372			.1520		1366
P ₆	.0414	28	.1782		1373			.1824		1366
P ₇	.0480	33	.2184		1373			.2128		1367
P ₈			.2496		1373			.2432		1368
P ₉			.2808		1373			.2736		1368
P ₁₀			.3120		1373			.3040		1368

Gauge No. 396			Depth 4377'			Clock 12		hour		
P ₀	.000	27	.000		33	.000	44	.000		179
P ₁	.0066	24	.0316		1359	.1048	74	.0316		1346
P ₂	.0132	24	.0632		1368	.2096	111	.0632		1356
P ₃	.0198	25	.0948		1371	.3144	145	.0948		1360
P ₄	.0264	27	.1264		1372	.4190	179	.1264		1363
P ₅	.0330	30	.1580		1373			.1580		1364
P ₆	.0396	31	.1896		1373			.1896		1366
P ₇	.0460	33	.2212		1373			.2212		1366
P ₈			.2528		1373			.2528		1367
P ₉			.2844		1373			.2844		1367
P ₁₀			.3160		1373			.3160		1367
Reading Interval 1			4.5			15		4.5 Minutes		

REMARKS:

SPECIAL PRESSURE DATA

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PRESSURE
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Flow Time	1st 7	Min.	2nd 60	Min.	Date	8-3-64	Ticket Number	423048 - S
Closed In Press. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND
Pressure Readings	Field		Office Corrected		Tester	MR. WALKER	Witness	MR. CRAIG
Depth Top Gauge	4362	Ft.	NO	Blanked Off	Drilling Contractor	PEEL BROTHERS INCORPORATED IC		
BT. P.R.D. No.	1463		12	Hour Clock	Elevation	2270'	Top Packer	-
Initial Hydro Mud Pressure	2364		2277		Total Depth	4394'	Bottom Packer	4379'
Initial Closed in Pres.	1393		1378		Interval Tested	4379'-4394'	Formation Tested	MISSISSIPPI
Initial Flow Pres.	36	1	22		Casing or Hole Size	7 7/8"	Casing Perfs. } Top	
	72	2	80				Casing Perfs. } Bot.	-
Final Flow Pres.	54	1	71		Surface Choke	1"	Bottom Choke	3/4"
	434	2	436					I.D. - LENGTH
Final Closed in Pres.	1365		1366		Size & Kind Drill Pipe	4 1/2"	Drill Collars Above Tester	-
Final Hydro Mud Pressure	2336		2244		Mud Weight	10	Mud Viscosity	47
Depth Cen. Gauge		Ft.		Blanked Off	Temperature	111	Anchor Size & Length	3 1/2" X 15'
						*F Est. *F Actual	ID OD	
BT. P.R.D. No.				Hour Clock	Depths Mea. From	KELLY BUSHINGS	Depth of Tester Valve	4357' Ft.
Initial Hydro Mud Pres.					TYPE	AMOUNT	Depth Back Pres. Valve	Ft.
Initial Closed in Pres.					Cushion	-		
Initial Flow Pres.		1			Recovered	1089	Feet of Gas	
Final Flow Pres.		2			Recovered	957	Feet of Free oil	
Final Closed in Pres.		1			Recovered	248	Feet of Slightly muddy oil	
Final Hydro Mud Pres.		2			Recovered		Feet of	
Depth Bot. Gauge	4392	Ft.	YES	Blanked Off	Oil A.P.I. Gravity	36	Water Spec. Gravity	-
BT. P.R.D. No.	396		12	Hour Clock	Gas Gravity	-	Surface Pressure	- psi
Initial Hydro Mud Pres.	2372		2278		Tool Opened	12:05 PM	A.M. P.M.	Tool Closed
Initial Closed in Pres.	1389		1378		Remarks	Opened tool for 7 minute 1st flow with fair blow increasing to good strong blow. Closed tool for 30 minute initial closed in pressure.		
Initial Flow Pres.	26	1	29					
Final Flow Pres.	70	1	68					
Final Closed in Pres.	1363		1366					
Final Hydro Mud Pres.	2319		2244					
						30 minute final closed in pressure.		

FORMATION TEST DATA

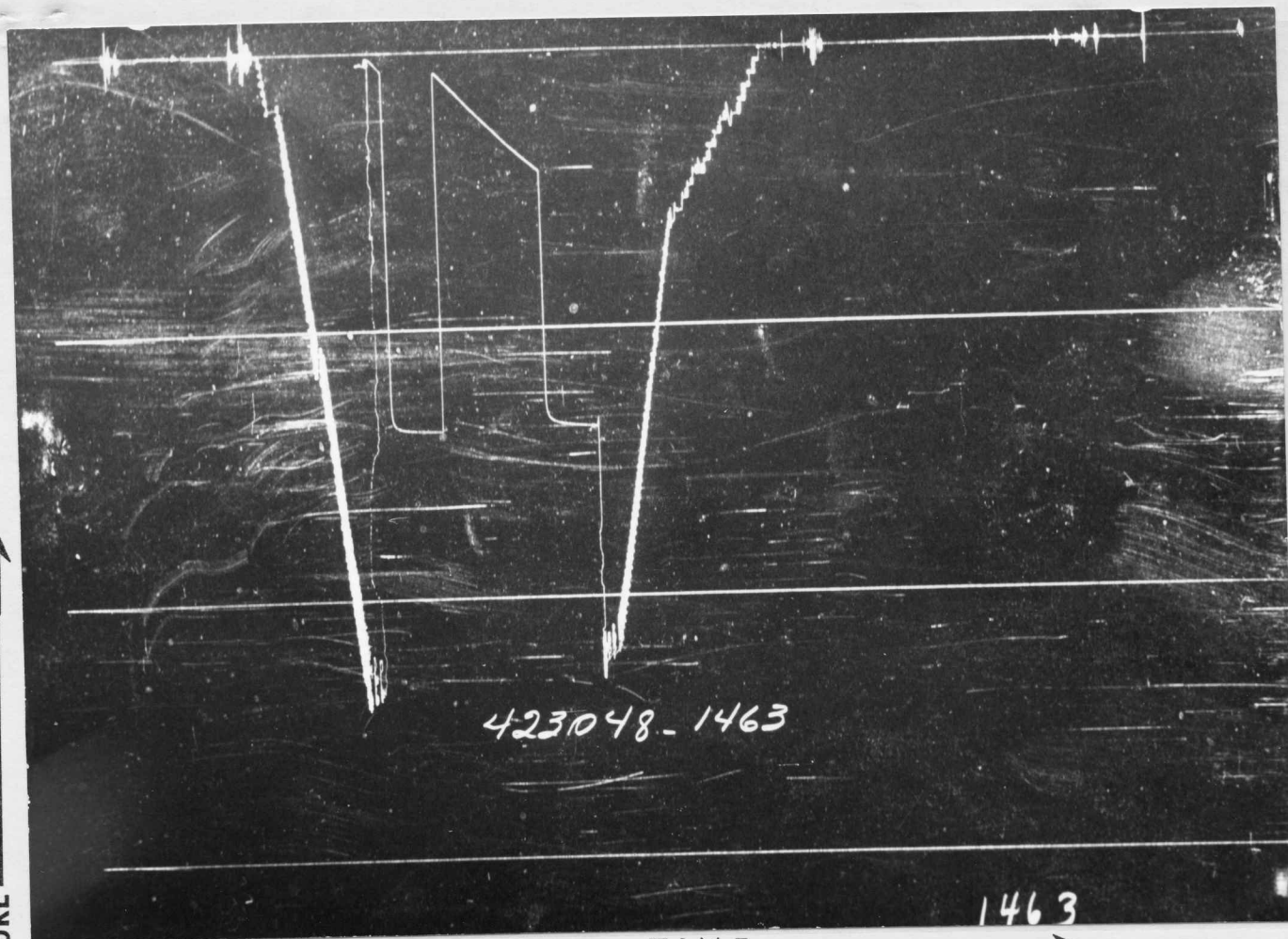
SPECIAL PRESSURE DATA

Gauge No. 1463			Depth 4362'			Clock 12 hour		Ticket No. 423048		
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	22	.000		71	.000	80	.000		436
P ₁	.0077	24	.0209		1357	.1035	170	.0208		1337
P ₂	.0154	31	.0418		1367	.2070	266	.0416		1348
P ₃	.0231	38	.0627		1371	.3105	356	.0624		1355
P ₄	.0308	45	.0836		1373	.4140	436	.0832		1358
P ₅	.0385	53	.1045		1375			.1040		1360
P ₆	.0462	61	.1254		1376			.1248		1362
P ₇	.0540	71	.1463		1377			.1456		1364
P ₈			.1672		1377			.1664		1366
P ₉			.1881		1378			.1872		1366
P ₁₀			.2090		1378			.2080		1366

Gauge No. 396			Depth 4392'			Clock 12 hour				
P ₀	.000	29	.000		68	.000	79	.000		434
P ₁	.0073	26	.0216		1351	.1055	170	.0218		1332
P ₂	.0146	31	.0432		1365	.2110	263	.0436		1346
P ₃	.0219	39	.0648		1370	.3165	353	.0654		1352
P ₄	.0292	46	.0864		1373	.4220	434	.0872		1356
P ₅	.0365	53	.1080		1374			.1090		1359
P ₆	.0438	69	.1296		1376			.1308		1361
P ₇	.0510	68	.1512		1377			.1526		1362
P ₈			.1728		1377			.1744		1364
P ₉			.1944		1378			.1962		1365
P ₁₀			.2160		1378			.2180		1366
Reading Interval 1			3			15		3 Minutes		
REMARKS:										

SPECIAL PRESSURE DATA

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PRESSURE
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← TIME →

1463

