

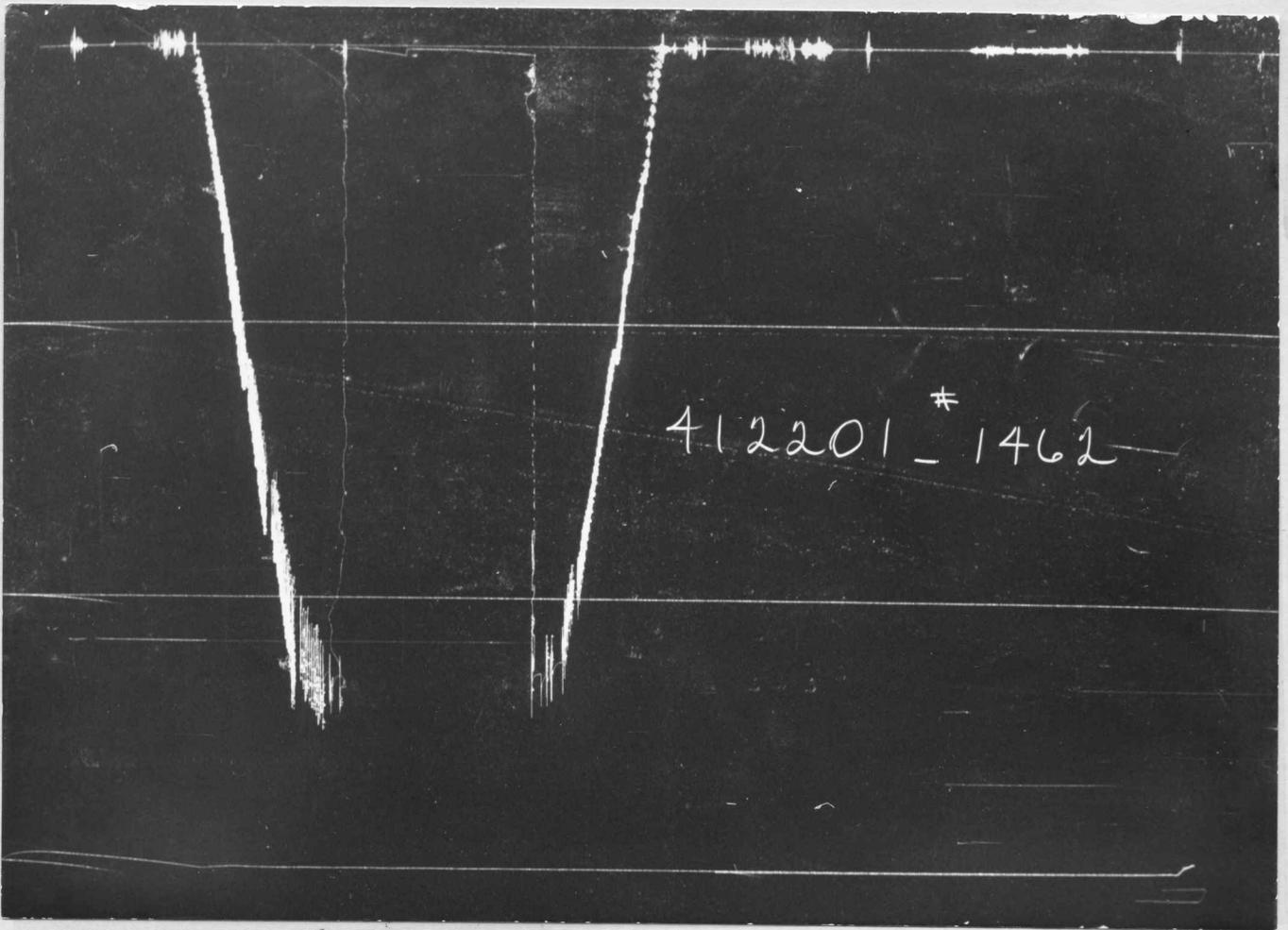
Flow Time	1st 5 Min.	2nd 30 Min.	Date	12-19-64	Ticket Number	412201
Closed In Press. Time	1st 30 Min.	2nd 45 Min.	Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND
Pressure Readings	Field	Office Corrected	Tester	WALKER	Witness	CRAIG
Depth Top Gauge	4317' Ft.	NO Blanked Off	Drilling Contractor	PEEL BROTHERS, INCORPORATED		EM
BT. P.R.D. No.	1462	12 Hour Clock	Elevation	-	Top Packer	-
Initial Hydro Mud Pressure	2307	2321	Total Depth	4333'	Bottom Packer	4320'
Initial Closed in Pres.	27	36	Interval Tested	4320' - 4333'	Formation Tested	FT. SCOTT
Initial Flow Pres.	9	1 11	Casing or Hole Size	7 7/8"	Casing Perfs. {	Top - Bot. -
Final Flow Pres.	18	1 11	Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	18	29	Size & Kind Drill Pipe	4 1/2" F.H.	Drill Collars Above Tester	-
Final Hydro Mud Pressure	2289	2321	Mud Weight	10	Mud Viscosity	42
Depth Cen. Gauge		Blanked Off	Temperature	111 °F Est. °F Actual	Anchor Size & Length	ID 2 3/8" OD 4 1/2" X 13.4'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	DERRICK FLOOR	Depth of Tester Valve	4314' Ft.
Initial Hydro Mud Pres.			TYPE AMOUNT		Depth Back Pres. Valve	Ft.
Initial Closed in Pres.			Cushion	NONE		
Initial Flow Pres.		1	Recovered	11' Feet of	drilling mud	
Final Flow Pres.		2	Recovered			
Final Closed in Pres.		1	Recovered			
Final Hydro Mud Pres.		2	Recovered			
Depth Bot. Gauge	4331' Ft.	YES Blanked Off	Oil A.P.I. Gravity		Water Spec. Gravity	
BT. P.R.D. No.	232	12 Hour Clock	Gas Gravity		Surface Pressure	psi
Initial Hydro Mud Pres.	2370	2346	Tool Opened	1:13	A.M. P.M.	Tool Closed 2:18 A.M. P.M.
Initial Closed in Pres.	27	43	Remarks	Tool opened @ 1:13 for a 5 minute first flow with a dead blow. Tool closed @ 1:18. Rotated tool for a 30 minute initial closed in pressure. Tool reopened @ 1:48 and was dead. Tool closed @ 2:18. Took a 45 minute final closed in pressure. Off bottom @ 3:03. NO SPECIAL READING ADAPTABLE.		
Initial Flow Pres.	18	1 22				
Final Flow Pres.	18	2 24				
Final Closed in Pres.	27	36				
Final Hydro Mud Pres.	2351	2346				

Legal Location Sec. - Typ. - Rng. 10 - 20 - 21 - W
 Lease Name _____
 Well No. _____
 Test No. _____
 Field Area _____
 County _____
 Lease Owner/Company Name NESS
 State KANSAS
 Owner's District _____

FORMATION TEST DATA

3

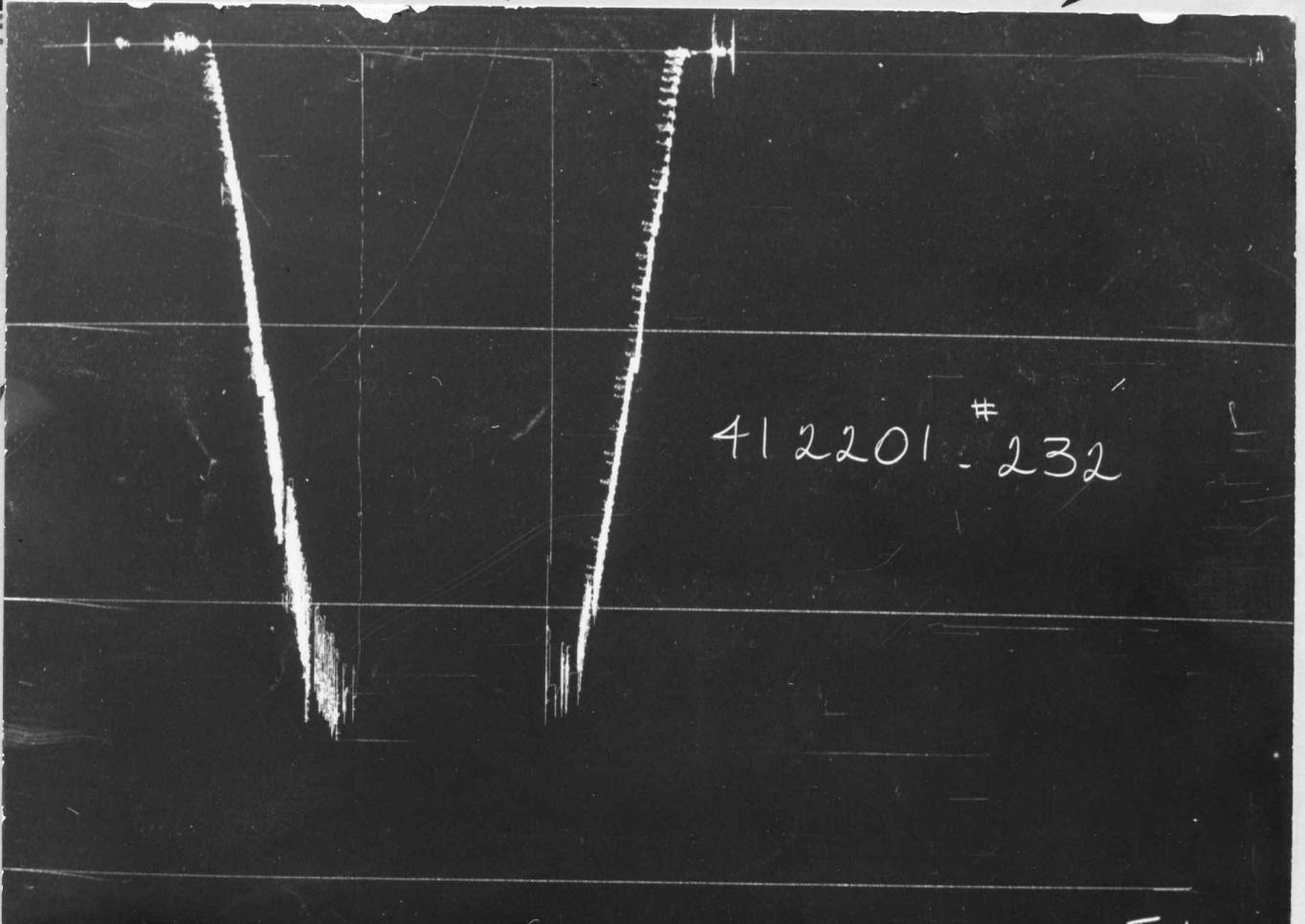
PRESSURE



412201-1462

TIME

PRESSURE



412201-232

Each horizontal line equal to 1000 p.s.f. T-1

Flow Time	1st Min.	2nd Min.	Date	Ticket Number
5		60	12-20-64	412202 - S
Closed In Press. Time	1st Min.	2nd Min.	Kind of Job	Halliburton District
30		30	OPEN HOLE	GREAT BEND
Pressure Readings	Field	Office Corrected	Tester	Witness
			MR. WALKER	MR. QUICK
Depth Top Gauge	4388 Ft.	NO Blanked Off	Drilling Contractor	PEEL BROTHERS INCORPORATED IC
BT. P.R.D. No.	1462	12 Hour Clock	Elevation	2249'
Initial Hydro Mud Pressure	2366	2302	Total Depth	4409'
Initial Closed in Pres.	1373	1372	Interval Tested	4399' - 4409'
Initial Flow Pres.	54 1 340 2	100 358	Casing or Hole Size	7 7/8"
Final Flow Pres.	314 1 1301 2	304 1305	Surface Choke	1"
Final Closed in Pres.	1346	1358	Size & Kind Drill Pipe	4 1/2"
Final Hydro Mud Pressure	2289	2291	Mud Weight	10
Depth Cen. Gauge			Temperature	111 °F Est. °F Actual
BT. P.R.D. No.			Anchor Size & Length	ID 2 3/8" OD 4 1/2" X 10'
Initial Hydro Mud Pres.			Drill Collars Above Tester	I.D. - LENGTH
Initial Closed in Pres.			Depth Mea. From	DERRICK FLOOR
Initial Flow Pres.			Depth of Tester Valve	4386' Ft.
Final Flow Pres.			Cushion	TYPE AMOUNT
Final Closed in Pres.			Depth Back Pres. Valve	- Ft.
Final Hydro Mud Pres.			Recovered	3420 Feet of Free gassy oil
Depth Bot. Gauge	4405 Ft.	YES Blanked Off	Recovered	
BT. P.R.D. No.	232	12 Hour Clock	Recovered	
Initial Hydro Mud Pres.	2370	2310	Recovered	
Initial Closed in Pres.	1371	1378	Recovered	
Initial Flow Pres.	163 1 380 2	363 389	Oil A.P.I. Gravity	35 @ 54°F
Final Flow Pres.	451 1 1290 2	474 1310	Water Spec. Gravity	-
Final Closed in Pres.	1353	1364	Gas Gravity	-
Final Hydro Mud Pres.	2315	2301	Surface Pressure	- psi
			Tool Opened	4:15 A.M. P.M.
			Tool Closed	6:20 A.M. P.M.
Remarks				
Opened tool for 5 minute 1st flow with a good blow. Closed tool for 30 minute initial closed in pressure. Reopened tool for 60 minute 2nd flow with good blow throughout test; gas to surface in 36 minutes. Closed tool for 30 minute final closed in pressure.				

Legal Location Sec. - Twp. - Rng. SEC. 10 - 20 - 21W
 Lease Name MC JUNKIN
 Well No. A-1
 Test No. 2
 Field Area
 County
 Lease Owner/Company Name CITIES SERVICE OIL COMPANY
 State KANSAS
 Owner's District KANSAS

FORMATION TEST DATA

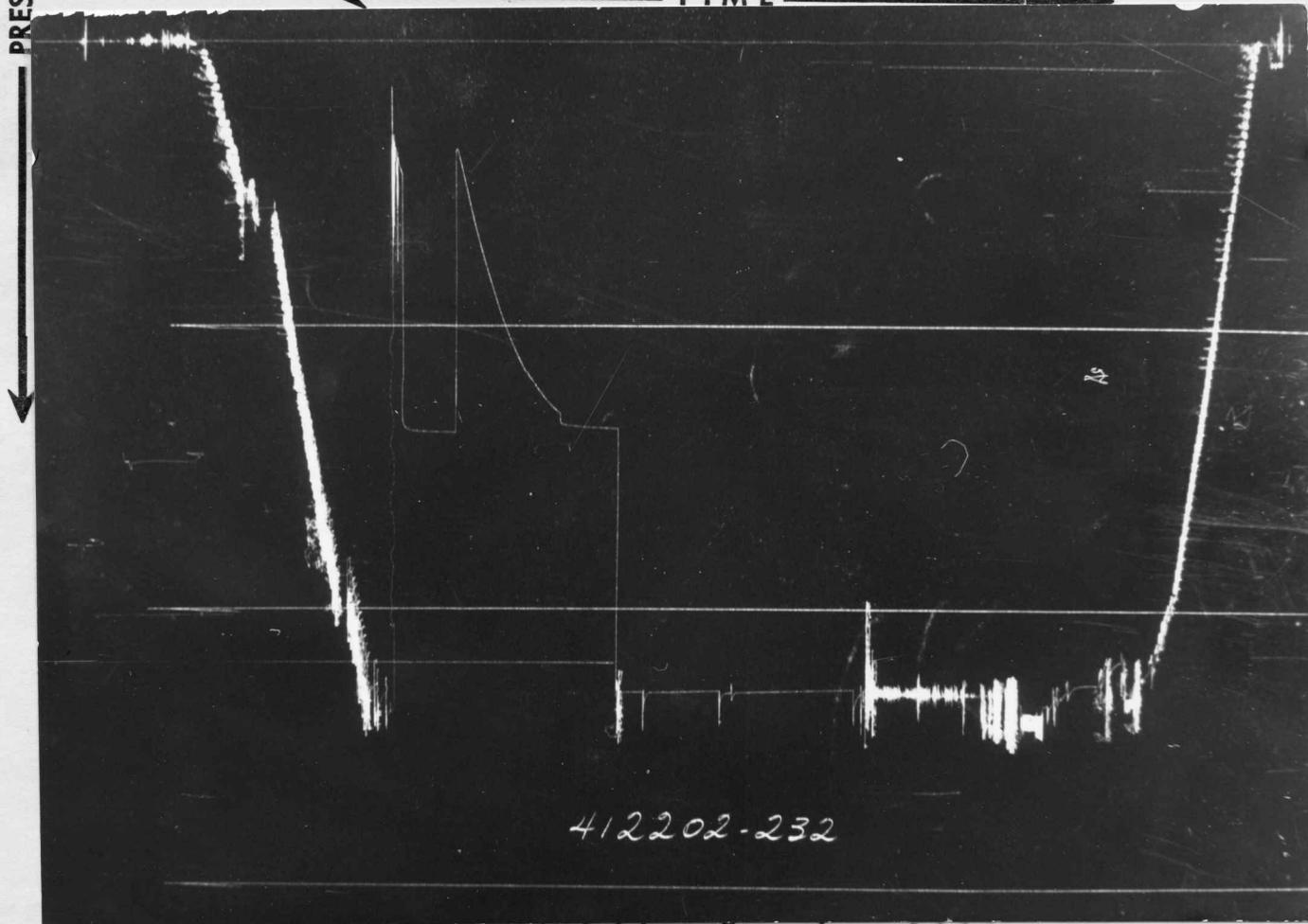
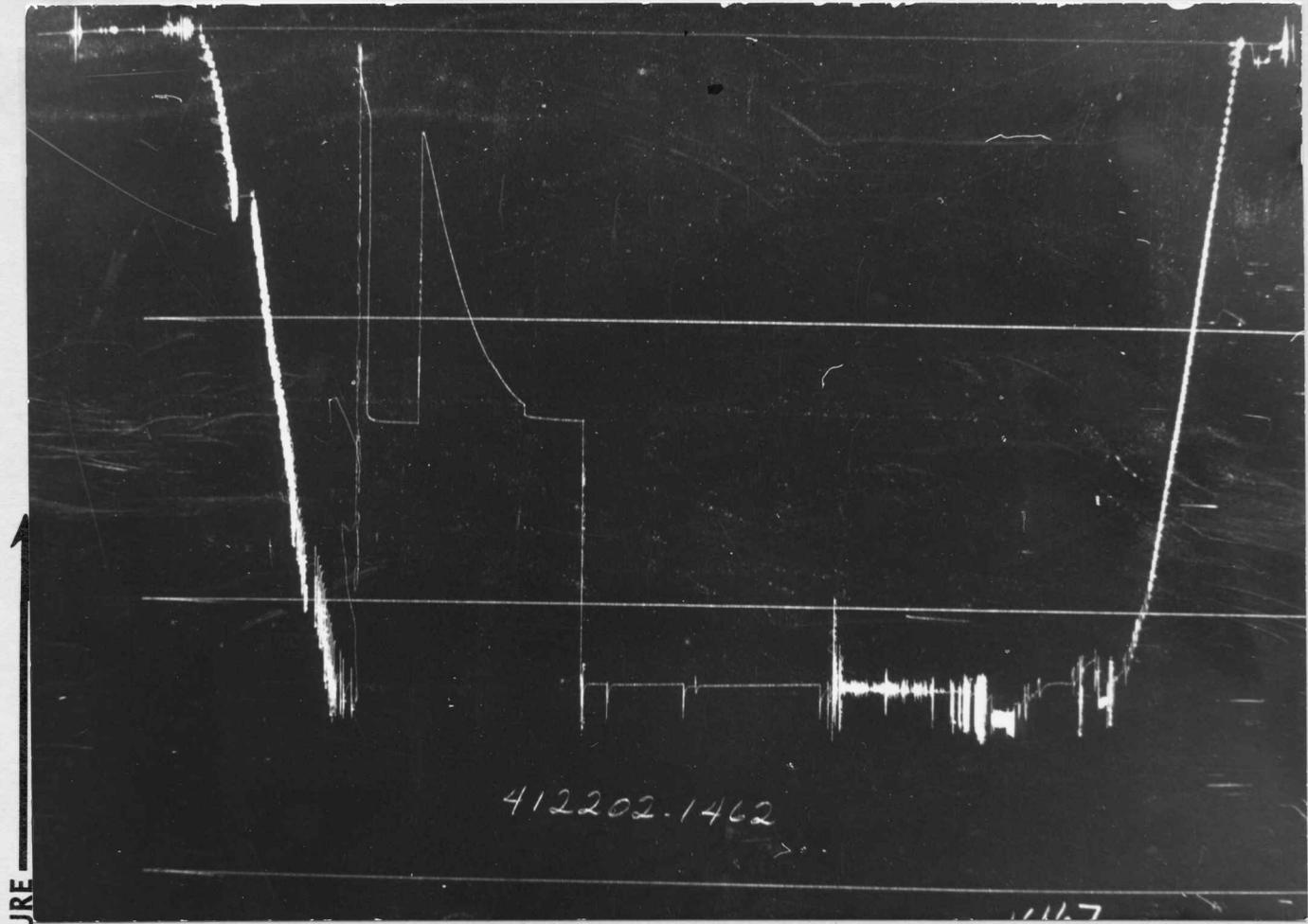
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Gauge No. 1162		Depth 13881			Clock 12 hour		Ticket No. 112202			
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{\theta}$	PSIG Temp. Corr.	
P ₀	.000	100	.000		304	.000	358	.000		1305
P ₁	.008	203	.0194		1363	.1018	731	.0229		1346
P ₂	.016	225	.0388		1367	.2036	1028	.0458		1349
P ₃	.024	249	.0582		1368	.3054	1200	.0687		1351
P ₄	.032	278	.0776		1369	.4070	1305	.0916		1352
P ₅	.040	304	.0970		1370			.1145		1353
P ₆			.1164		1371			.1374		1355
P ₇			.1358		1372			.1603		1356
P ₈			.1552		1372			.1832		1357
P ₉			.1746		1372			.2061		1358
P ₁₀			.1940		1372			.2290		1358

Gauge No. 232		Depth 14051			Clock 12 hour					
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	363	.000		474	.000	389	.000		1310
P ₁	.0074	377	.0206		1368	.1013	744	.0225		1352
P ₂	.0148	*	.0412		1373	.2026	1031	.0450		1355
P ₃	.0222	433	.0618		1375	.3039	1205	.0675		1356
P ₄	.0296	454	.0824		1375	.4050	1310	.0900		1358
P ₅	.0370	474	.1030		1376			.1125		1360
P ₆			.1236		1377			.1350		1361
P ₇			.1442		1378			.1575		1362
P ₈			.1648		1378			.1800		1363
P ₉			.1854		1378			.2025		1364
P ₁₀			.2060		1378			.2250		1364
Reading Interval	1		3			15		3		Minutes

REMARKS: * UNABLE TO READ

SPECIAL PRESSURE DATA



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

Flow Time	1st 10	Min.	2nd 30	Min.	Date	12-21-64	Ticket Number	412203 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	JIM QUIALS
Depth Top Gauge	4403	Ft.	Blanked No Off		Drilling Contractor	PEEL BROS., INC.	JM	
BT. P.R.D. No.	1462		12	Hour Clock	Elevation	2249'	Top Packer	-
Initial Hydro Mud Pressure	2362		2297		Total Depth	4419'	Bottom Packer	4409'
Initial Closed in Pres.	1346		1360		Interval Tested	4409-4419'	Formation Tested	MISSISSIPPI
Initial Flow Pres.	179	1	229		Casing or Hole Size	7 7/8"	Casing Perfs.	Top
Final Flow Pres.	582	2	600		Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	536	1	557		Size & Kind Drill Pipe	16 jus. flex wt. 4 1/2" ACME	Drill Collars Above Tester	I.D. - LENGTH none
Final Hydro Mud Pressure	1184	2	1201		Mud Weight	10	Mud Viscosity	44
Depth Cen. Gauge		Ft.	Blanked Off		Temperature	111	Anchor Size & Length	ID 2 3/8" OD 4 1/2" X 10
BT. P.R.D. No.				Hour Clock	Depths Mea. From	Derrick Floor	Depth of Tester Valve	4400' Ft.
Initial Hydro Mud Pres.					Cushion	none	Depth Back Pres. Valve	Ft.
Initial Closed in Pres.					Recovered	3371	Feet of	Free Gassy oil
Initial Flow Pres.		1			Recovered	274	Feet of	Highly gassy mud cut oil
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	35 at 56°	Water Spec. Gravity	
Depth Bot. Gauge	4415	Ft.	Blanked Yes Off		Gas Gravity		Surface Pressure	psi
BT. P.R.D. No.	232		12	Hour Clock	Tool Opened	10:45	A.M. Tool Closed	12:25 A.M. P.M.
Initial Hydro Mud Pres.	2388		2314		Remarks	Tool opened with a good strong blow for a 10		
Initial Closed in Pres.	1380		1372			minute first flow. Rotated tool for a 30 minute		
Initial Flow Pres.	316	1	341			initial closed in pressure. Reopened tool at		
Final Flow Pres.	668	2	665			11:25 with a good strong blow, gas to the surface		
Final Closed in Pres.	632	1	641			in 33 minutes. Closed tool for a 30 minute		
Final Hydro Mud Pres.	1190	2	1216			final closed in pressure.		

Legal Location Sec. - Twp. - King. 10 20 21 W
Lease Name MC JUNKIN
Well No. A-1
Test No. 3
Field Area
County NESS
State KANSAS
Owner's District KANSAS

CITIES SERVICE OIL COMPANY
Lease Owner/Company Name

FORMATION TEST DATA

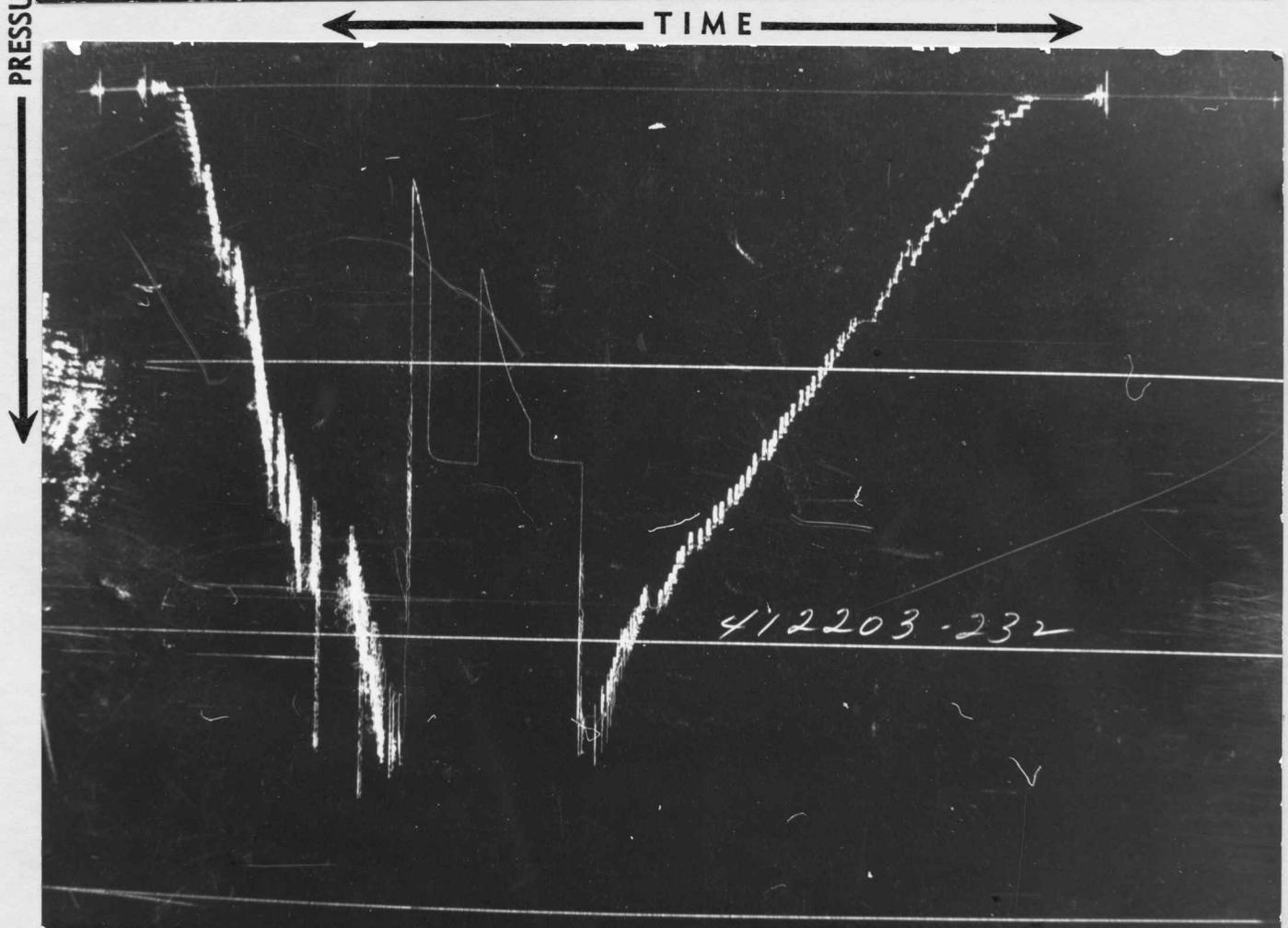
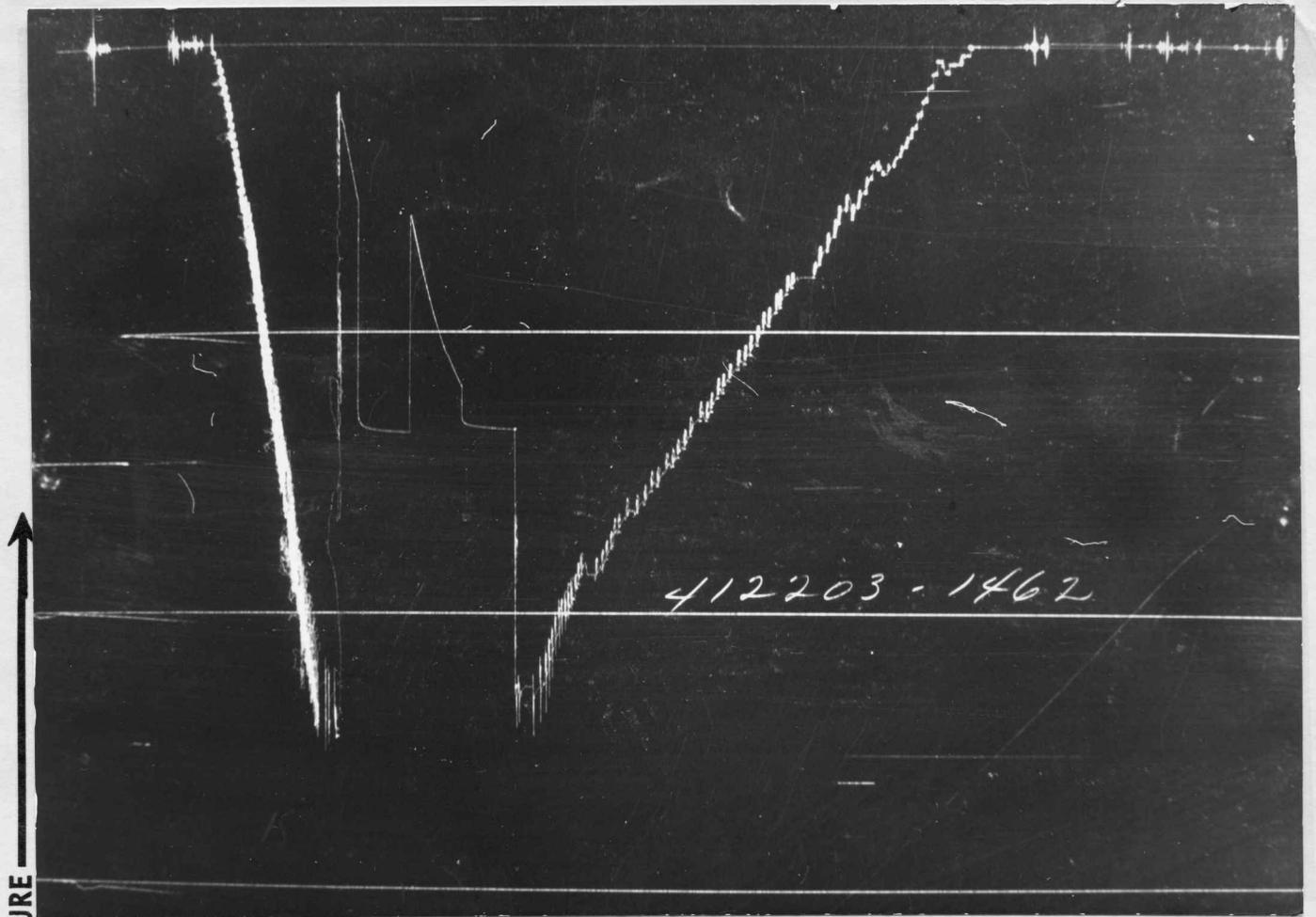
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Gauge No. 1162		Depth 1103'			Clock 12 hour		Ticket No. 112203			
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀	.000	229	.000		557	.000	600	.000		1201
P ₁	.015	271	.0198		1342	.0396	764	.0207		1333
P ₂	.030	341	.0396		1349	.0792	915	.0414		1339
P ₃	.045	412	.0594		1352	.1188	1034	.0621		1341
P ₄	.060	484	.0792		1354	.1584	1122	.0828		1344
P ₅	.075	557	.0990		1356	.1980	1201	.1035		1346
P ₆			.1188		1358			.1242		1347
P ₇			.1386		1359			.1449		1349
P ₈			.1584		1359			.1656		1350
P ₉			.1782		1360			.1863		1350
P ₁₀			.1980		1360			.2070		1350

Gauge No. 232		Depth 4415			Clock 12 hour					
	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	341	.000		641	.000	665	.000		1216
P ₁	.0144	382	.020		1350	.041	799	.0212		1346
P ₂	.0288	443	.040		1359	.082	943	.0424		1350
P ₃	.0432	513	.060		1364	.123	1060	.0636		1353
P ₄	.0576	573	.080		1366	.164	1143	.0848		1356
P ₅	.0720	641	.100		1368	.205	1216	.1060		1357
P ₆			.120		1369			.1272		1359
P ₇			.140		1370			.1484		1360
P ₈			.160		1371			.1696		1361
P ₉			.180		1372			.1908		1362
P ₁₀			.200		1372			.2120		1363
Reading Interval	2		3			6		3		Minutes

REMARKS:

SPECIAL PRESSURE DATA



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