

Flow Time	1st 2	Min.	2nd 60	Min.	Date	2-19-62	Ticket Number	325677	S
Closed In Press. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	OPEN HOLE	Halliburton District	PRATT	
Pressure Readings	Field		Office Corrected		Tester	BILL THOMPSON	Witness	JIM WILLIABY	
Depth Top Gauge	4214	Ft.	No	Blanked Off	Drilling Contractor	GARVEY DRILLING CO.			
BT. P.R.D. No.	738		12	Hour Clock	Elevation	1582' DF	Top Packer	-	
Initial Hydro Mud Pressure	2255		2239		Total Depth	4235'	Bottom Packer	4221'	
Initial Closed in Pres.	1520		1517		Interval Tested	4221-4235'	Formation Tested	Miss	
Initial Flow Pres.			1	16	Casing or Hole Size	7 7/8"	Casing Perfs.	Top	
			2	21				Bot.	
Final Flow Pres.			1	16	Surface Choke	1"	Bottom Choke	5/8"	
Final Closed in Pres.	5 1425		2	24	Size & Kind Drill Pipe	4 1/2" FH	Drill Collars Above Tester	none	I.D. - LENGTH
Final Hydro Mud Pressure	2225		2233		Mud Weight	10.2	Mud Viscosity	47	
Depth Cen. Gauge	4228	Ft.	yes	Blanked Off	Temperature	111	Anchor Size & Length	ID 2.37 OD 5	X
BT. P.R.D. No.	272		12	Hour Clock	Depths Mea. From	KB	Depth of Tester Valve	4211'	Ft.
Initial Hydro Mud Pres.	2275		2252		TYPE AMOUNT		Depth Back Pres. Valve	4206'	Ft.
Initial Closed in Pres.	1535		1524		Cushion	none			
Initial Flow Pres.			1	31	Recovered	40	Feet of	mud	
Final Flow Pres.	5		1	27	Recovered		Feet of		
Final Closed in Pres.	15		2	34	Recovered		Feet of		
Final Hydro Mud Pres.	1435		1429		Recovered		Feet of		
Final Hydro Mud Pres.	2225		2243		Oil A.P.I. Gravity		Water Spec. Gravity		
Depth Bot. Gauge		Ft.		Blanked Off	Gas Gravity		Surface Pressure		psi
BT. P.R.D. No.				Hour Clock	Tool Opened	4:22	A.M. P.M.	Tool Closed	5:22 PM
Initial Hydro Mud Pres.					Remarks Tool opened at 3:50 with good blow for a 2				
Initial Closed in Pres.					minute first flow. Closed at 3:52 for a 30 min.				
Initial Flow Pres.			1		ICIP. Reopened at 4:22 with good blow, gas to				
Final Flow Pres.			1		surface in 17 mins. Not enough to gauge. Closed				
Final Closed in Pres.			2		for FCIP at 5:22.				
Final Hydro Mud Pres.									

Legal Location Sec. - Twp. - King. SW 13 SW 30 SE 9
 Lease Name Nichols
 Well No. 1
 Test No. 1
 Field Area Spivy Grabs
 County KINGMAN
 State KANSAS
 Lease Owner/Company Name CITIES SERVICE PETROLEUM COMPANY
 Owner's District

FORMATION TEST DATA

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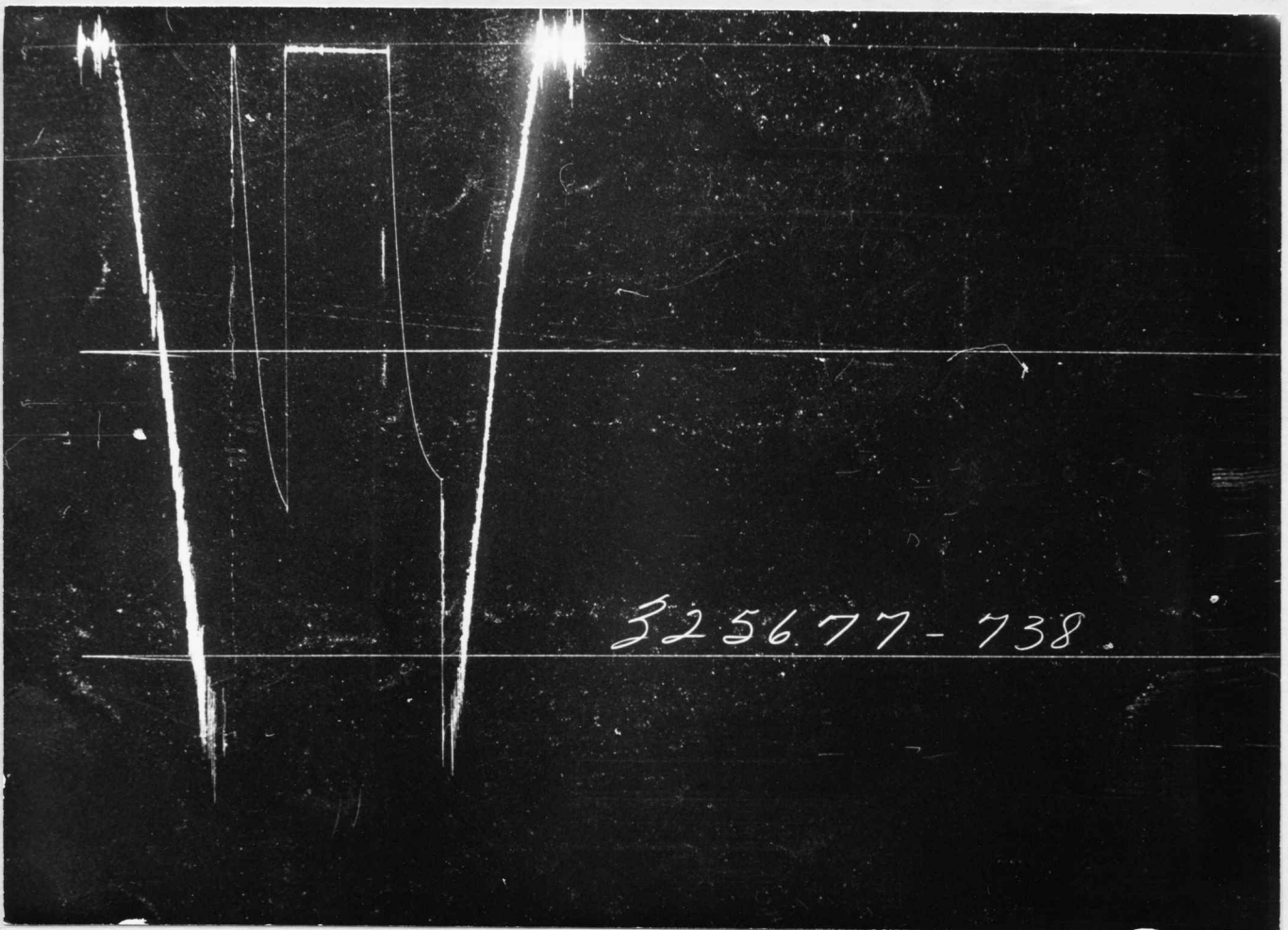
Gauge No. 738		Depth 4214		Clock 12 hour		Ticket No. 325677				
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.
P ₀	.000	16	.000		16	.000	21	.000		24
P ₁	.008	16	.0195		245	.406	24	.0198		496
P ₂			.0390		482			.0396		809
P ₃			.0585		740			.0594		1017
P ₄			.0780		962			.0792		1155
P ₅			.0975		1137			.0990		1245
P ₆			.1170		1270			.1188		1307
P ₇			.1365		1369			.1386		1350
P ₈			.1560		1435			.1584		1381
P ₉			.1755		1481			.1782		1403
P ₁₀			.1950		1517			.1980		1421

Gauge No. 272		Depth 4228		Clock 12 hour						
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.
P ₀	.000	31	.000		27	.000	34	.000		34
P ₁	.006	27	.0215		229	.445	34	.0215		433
P ₂			.0430		458			.0430		790
P ₃			.0645		722			.0645		1003
P ₄			.0860		945			.0860		1148
P ₅			.1075		1138			.1075		1244
P ₆			.1290		1280			.1290		1313
P ₇			.1505		1379			.1505		1359
P ₈			.1720		1445			.1720		1392
P ₉			.1935		1492			.1935		1413
P ₁₀			.2150		1524			.2150		1429
Reading Interval			3			3			Minutes	

REMARKS:

SPECIAL PRESSURE DATA

PRESSURE



325677-738

TIME



325677-272

Flow Time	1st 2	Min.	2nd 60	Min.	Date	2-20-62	Ticket Number	325678	S
Closed In Press. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	OPEN HOLE	Halliburton District	PRATT	
Pressure Readings	Field		Office Corrected		Tester	THOMPSON	Witness	WILLAY	
Depth Top Gauge	4224	Ft.	No	Blanked Off	Drilling Contractor	GARVEY DRILLING COMPANY			
BT. P.R.D. No.	738		12	Hour Clock	Elevation	1582' DF	Top Packer		
Initial Hydro Mud Pressure	2275		2	242	Total Depth	4250'	Bottom Packer	4235'	
Initial Closed in Pres.	215		228		Interval Tested	4235-4250'	Formation Tested	Miss.	
Initial Flow Pres.			1	13	Casing or Hole Size	7 7/8"	Casing Perfs.	Top	
			2	13				Bot.	
Final Flow Pres.	15		1	14	Surface Choke	1"	Bottom Choke	5/8"	
Final Closed in Pres.	115		2	16	Size & Kind Drill Pipe	4 1/2" FH	Drill Collars Above Tester		I.D. - LENGTH
Final Hydro Mud Pressure	2245		2242		Mud Weight	10.2	Mud Viscosity	47	
Depth Cen. Gauge		Ft.		Blanked Off	Temperature	112	Anchor Size & Length	ID 3.62" OD 5" X	
BT. P.R.D. No.				Hour Clock	Depths Mea. From	KB	Depth of Tester Valve	4225'	Ft.
Initial Hydro Mud Pres.					TYPE	AMOUNT	Depth Back Pres. Valve	4220'	Ft.
Initial Closed in Pres.					Cushion	None			
Initial Flow Pres.			1		Recovered	30	Feet of Mud with a few speck of oil		
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	4246	Ft.	Yes	Blanked Off	Oil A.P.I. Gravity		Water Spec. Gravity		
BT. P.R.D. No.	272		12	Hour Clock	Gas Gravity		Surface Pressure		psi
Initial Hydro Mud Pres.	2285		2254		Tool Opened	3:43	Tool Closed	4:43	
Initial Closed in Pres.	225		239		Remarks	Opened with a fair blow, for 2 min. 1st flow. Closed for 30 min. ICIP.			
Initial Flow Pres.			1	34		Reopened with a fair blow, for 60 min.			
Final Flow Pres.	15		2	29		2nd flow. Closed for 30 min. FCIP.			
Final Closed in Pres.	115		117						
Final Hydro Mud Pres.	2255		2254						

Legal Location Sec. - Twp. - Rng. 13-30-9
 Lease Name NICHOLS UNIT
 Well No. SW SW SE
 Field Area SPIVY GRABBS
 County KINGMAN
 State KANSAS
 Test No. 2
 Lease Owner/Company Name CITIENS SERVICE PETROLEUM CO.
 Owner's District KANSAS

FORMATION TEST DATA

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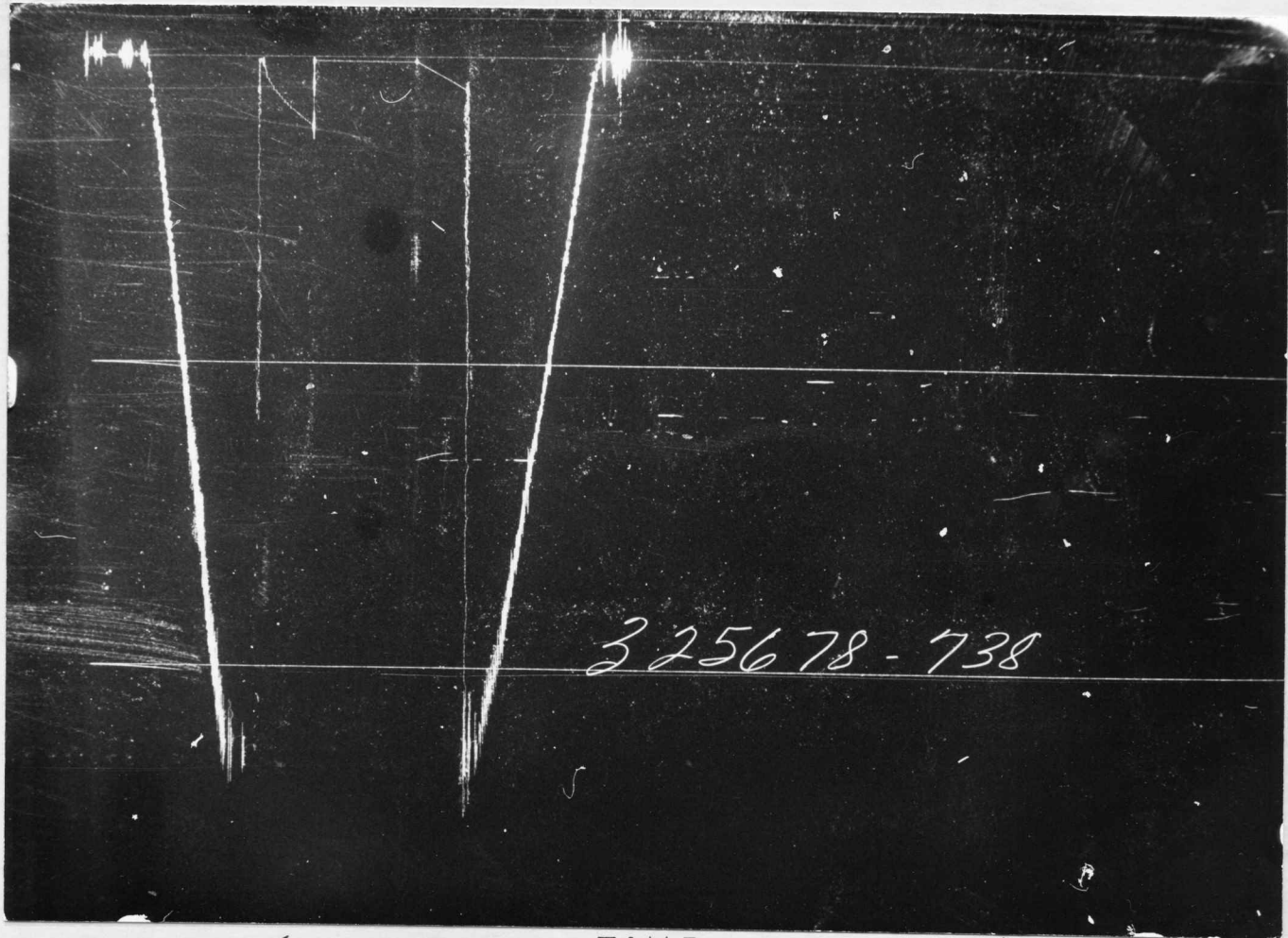
Gauge No. 738		Depth 4224			Clock 12		hour		Ticket No. 325678	
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{e}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{e}$	PSIG Temp. Corr.
P ₀	.000	13	.000		14	.000	13	.000		16
P ₁	.012	14	.020		73	.406	16	.198		106
P ₂			.040		98					
P ₃			.060		122					
P ₄			.080		142					
P ₅			.100		160					
P ₆			.120		172					
P ₇			.140		186					
P ₈			.160		202					
P ₉			.180		214					
P ₁₀			.200		228					

Gauge No. 272		Depth 4246			Clock 12		hour			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{e}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t + \theta}{e}$	PSIG Temp. Corr.
P ₀	.000	34	.000		28	.000	31	.000		29
P ₁	.010	28	.0214		76	.427	29	.208		117
P ₂			.0428		106					
P ₃			.0642		130					
P ₄			.0856		149					
P ₅			.1070		168					
P ₆			.1284		185					
P ₇			.1498		200					
P ₈			.1712		214					
P ₉			.1926		226					
P ₁₀			.2140		239					
Reading Interval			3					Minutes		

REMARKS:

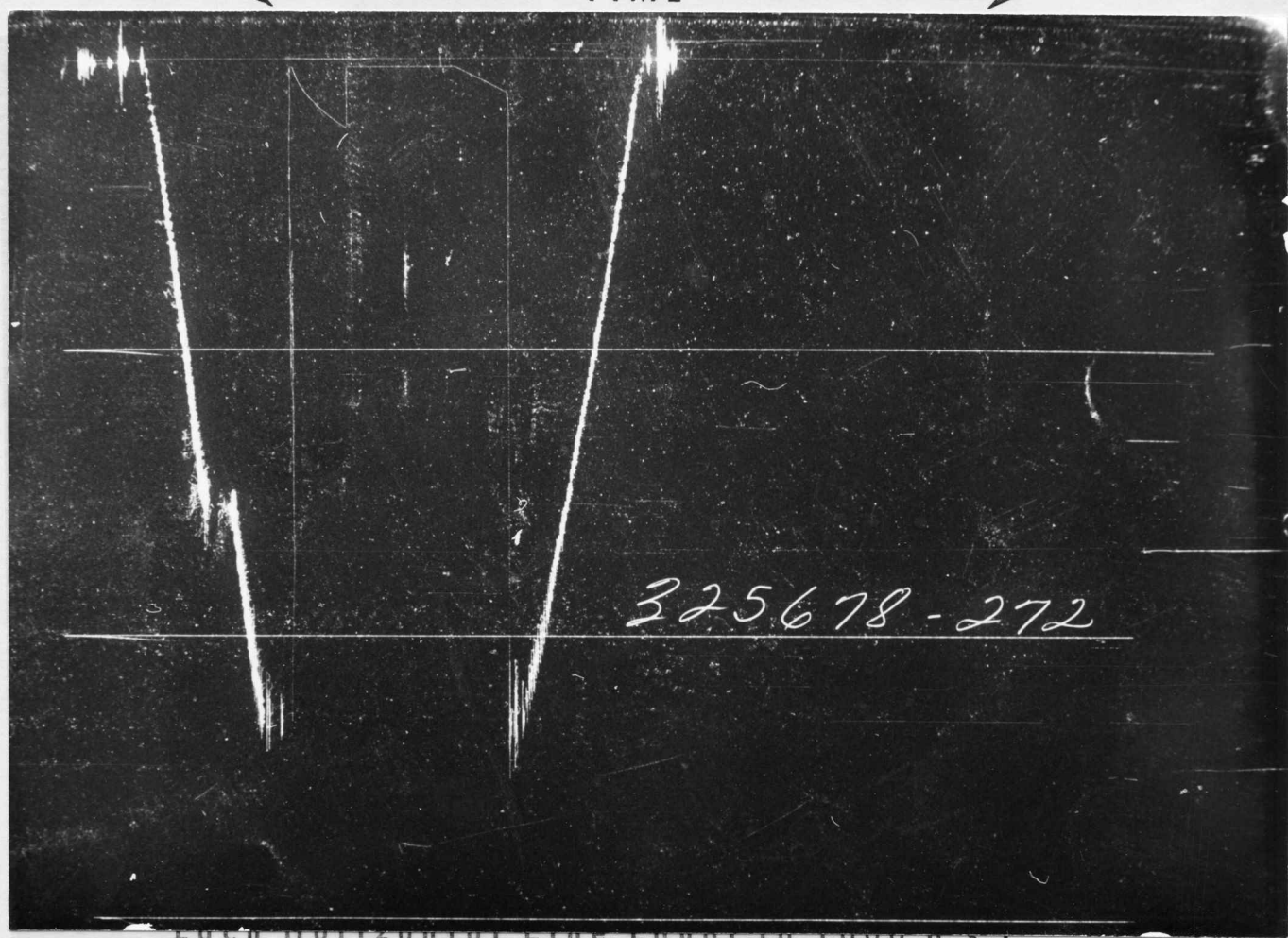
SPECIAL PRESSURE DATA

500



PRESSURE

TIME



EACH HORIZONTAL LINE EQUAL TO 1000 P.S.I.