

Flow Time	1st 3	Min.	2nd 30	Min.	Date	3-10-62		Ticket Number	331777 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	IVERSON	
Depth Top Gauge	4293	Ft.	No	Blanked Off	Drilling Contractor	SIERRA PETROLEUM, INCORPORATED				
BT. P.R.D. No.	738		12	Hour Clock	Elevation	1954' LF		Top Packer	4304'	
Initial Hydro Mud Pressure	2415		2419		Total Depth	4317'		Bottom Packer	4308'	
Initial Closed in Pres.	1465		1451		Interval Tested	4308-4317'		Formation Tested	Simpson	
Initial Flow Pres.	1220		1211		Casing or Hole Size	9"		Casing Perfs.	{ Top Bot.	
Final Flow Pres.	1325		1262		Surface Choke	1"		Bottom Choke	5/8"	
Final Closed in Pres.	1465		1455		Size & Kind Drill Pipe	4 1/2" FH		Drill Collars Above Tester	I.D. - LENGTH 2 5/8" x 145.	
Final Hydro Mud Pressure	2395		2396		Mud Weight	10.4		Mud Viscosity	46	
Depth Cen. Gauge		Ft.		Blanked Off	Temperature	112 °F Est. °F Actual		Anchor Size & Length	ID 2.37" X OD 5"	
BT. P.R.D. No.				Hour Clock	Depths Mea. From	KB		Depth of Tester Valve	4290' Ft.	
Initial Hydro Mud Pres.					TYPE	AMOUNT		Depth Back Pres. Valve	4285' Ft.	
Initial Closed in Pres.					Cushion	None		Recovered	2 Feet of Watery distillate	
Initial Flow Pres.					Recovered			Recovered	Feet of	
Final Flow Pres.					Recovered			Recovered	Feet of	
Final Closed in Pres.					Recovered			Recovered	Feet of	
Final Hydro Mud Pres.					Oil A.P.I. Gravity			Water Spec. Gravity		
Depth Bot. Gauge	4313	Ft.	Yes	Blanked Off	Gas Gravity			Surface Pressure	6160 psi	
BT. P.R.D. No.	272		12	Hour Clock	Tool Opened	5:05 A.M. P.M.		Tool Closed	5:35 A.M. P.M.	
Initial Hydro Mud Pres.	2425		2436		Remarks	Opened for 3 min. 1st flow. Closed				
Initial Closed in Pres.	1465		1326			for 30 min. ICIP. Reopened with a strong				
Initial Flow Pres.	1315		1299			blow, for 30 min. 2nd flow. Gas to surface				
Final Flow Pres.	1385		1326			in 1 min. Max. 6160. Closed for 30 min.				
Final Closed in Pres.	1465		1460			FCIP.				
Final Hydro Mud Pres.	2395		2411							

FORMATION TEST DATA

5

HERTLEIN

Legal Location

Sec. - Typ. - Rng.

22-28-13

NE SE SE 8

Wall No.

Test No.

CONTINENTAL OIL COMPANY

Lease Owner/Company Name

S. PRATT

County

PRATT

State

KANSAS

KANSAS

Owner's District

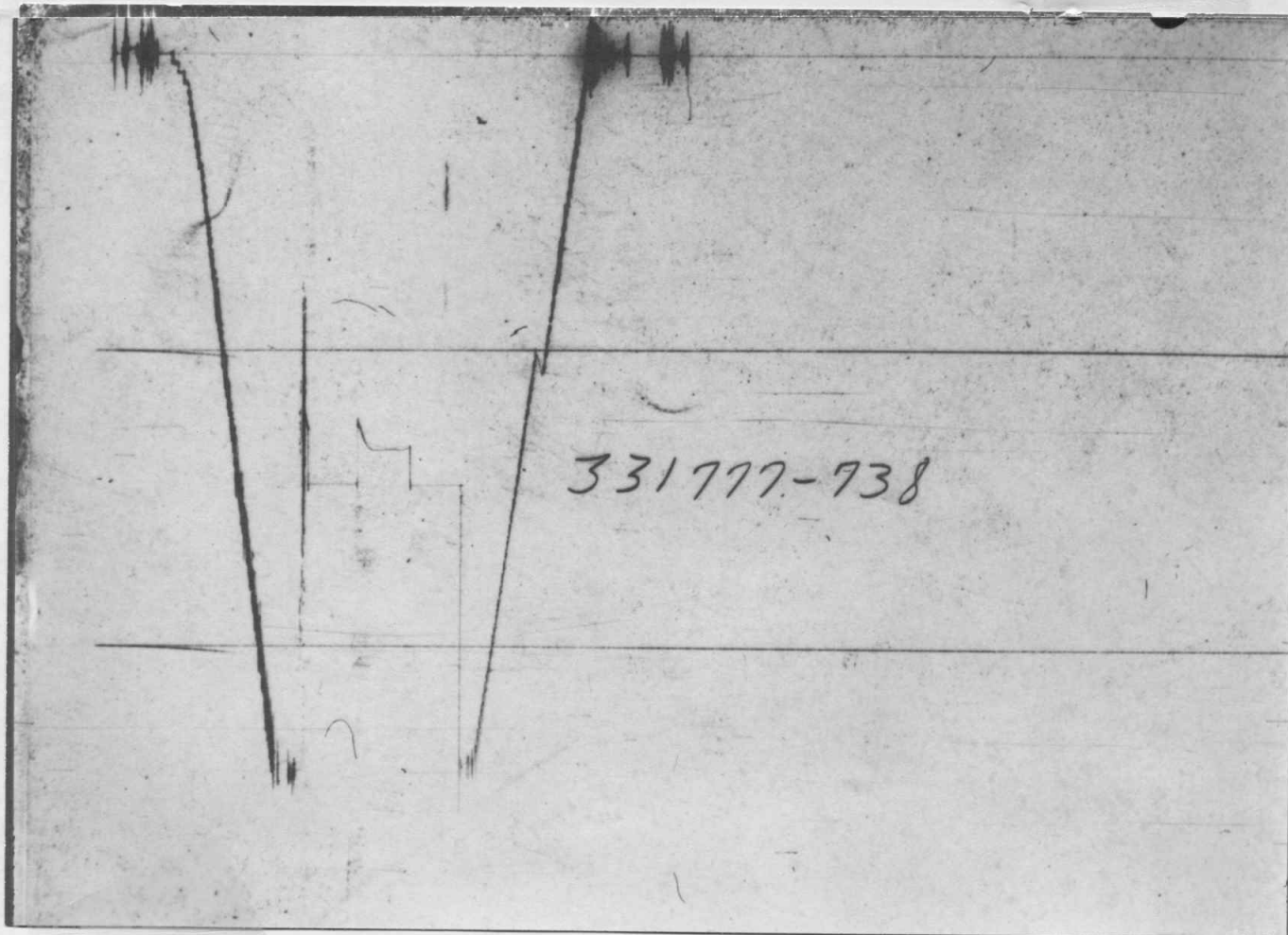
Gauge No. 738			Depth 4293'			Clock 12 hour		Ticket No. 331777		
First Flow Period			Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
P ₀	.000	1211	.000		1262	.000	1252	.000		1329
P ₁	.017	1262	.198		1451	.210	1329	.203		1455
P ₂										
P ₃										
P ₄										
P ₅										
P ₆										
P ₇										
P ₈										
P ₉										
P ₁₀										

Gauge No. 272			Depth 4313'			Clock 12 hour				
P ₀	.000	1299	.000		1326	.000	1320	.000		1380
P ₁	.016	1326	.213		1458	.213	1380	.211		1460
P ₂										
P ₃										
P ₄										
P ₅										
P ₆										
P ₇										
P ₈										
P ₉										
P ₁₀										

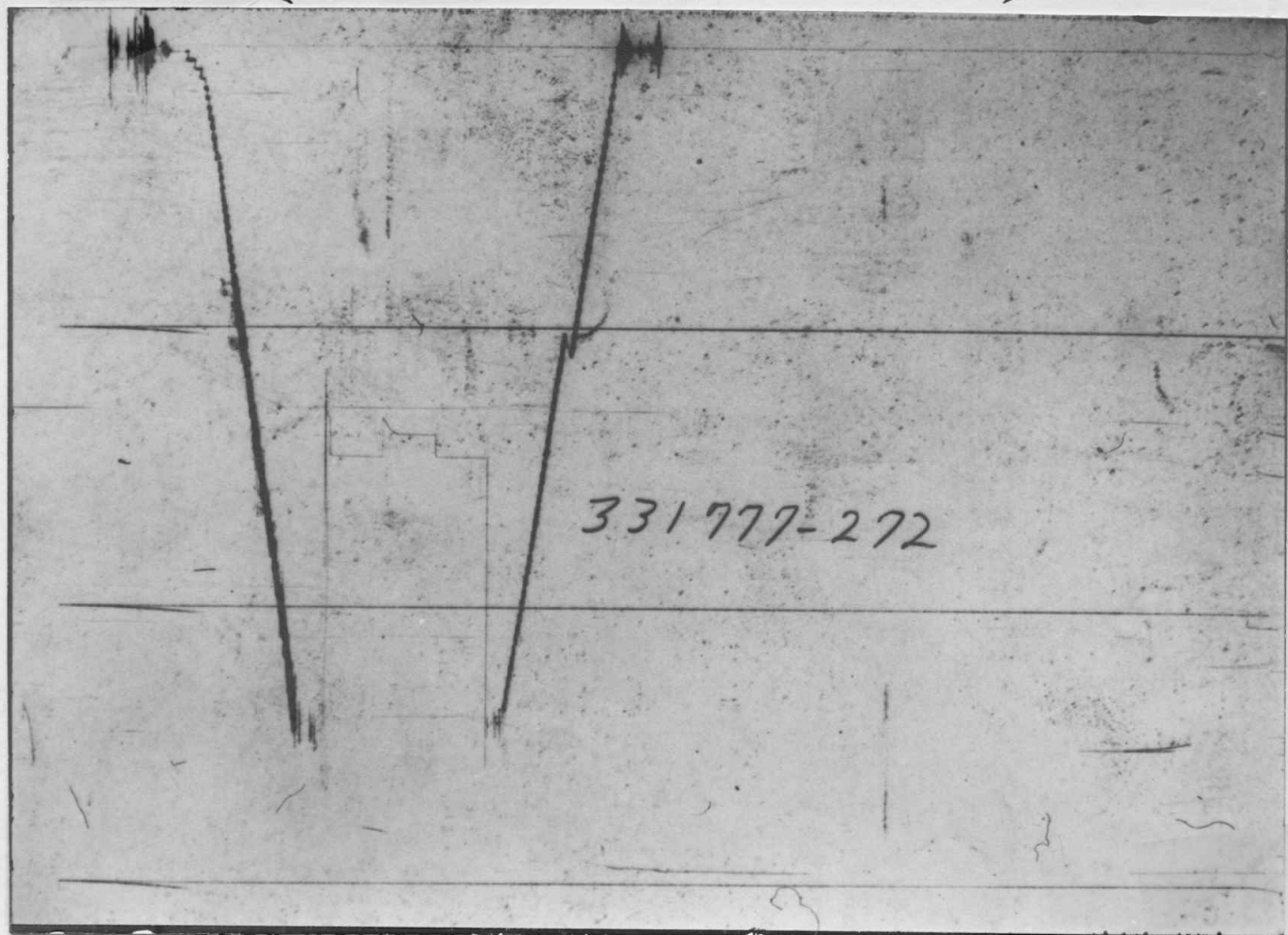
Reading Interval									Minutes		
REMARKS:											

SPECIAL PRESSURE DATA

PRESSURE



TIME



Flow Time	1st 5	Min.	2nd 60	Min.	Date	3-12-62		Ticket Number	331778 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	BILL IVERSON	
Depth Top Gauge	4369	Ft.	No	Blanked Off	Drilling Contractor	SIERRA PET. CO. INC.				
BT. P.R.D. No.	738		12	Hour Clock	Elevation	7954' DF		Top Packer	4380'	
Initial Hydro Mud Pressure	2445		2405		Total Depth	4400'		Bottom Packer	4385'	
Initial Closed in Pres.	1425		1416		Interval Tested	4385-4400'		Formation Tested	Simpson	
Initial Flow Pres.	55		1 134 2 85		Casing or Hole Size	9"		Casing Perfs.	{ Top Bot.	
Final Flow Pres.	185		1 66 2 187		Surface Choke	1"		Bottom Choke	5/8"	
Final Closed in Pres.	1355		1350		Size & Kind Drill Pipe	4 1/2" FH		Drill Collars Above Tester	I.D. - LENGTH 2 3/8" X 206.11	
Final Hydro Mud Pressure	2395		2404		Mud Weight	10.3		Mud Viscosity	49	
Depth Cen. Gauge	4396	Ft.	yes	Blanked Off	Temperature	114 °F Est. °F Actual		Anchor Size & Length	ID 2.35 OD 5 X	
BT. P.R.D. No.	272		12	Hour Clock	Depths Mea. From	KB		Depth of Tester Valve	4367' Ft.	
Initial Hydro Mud Pres.	2445		2420		Cushion	TYPE none		Depth Back Pres. Valve	4362' Ft.	
Initial Closed in Pres.	1425		1419		Recovered	20 Feet of Heavy gas & oil cut mud		Mea. From Tester Valve		
Initial Flow Pres.	80		1 124* 2 91		Recovered	120 Feet of heavy oil & gas cut mud				
Final Flow Pres.	185		1 71 2 185		Recovered	420 Feet of free oil				
Final Closed in Pres.	1365		1352		Recovered	Feet of				
Final Hydro Mud Pres.	2415		2411		Oil A.P.I. Gravity	35		Water Spec. Gravity		
Depth Bot. Gauge		Ft.		Blanked Off	Gas Gravity			Surface Pressure	psi	
BT. P.R.D. No.				Hour Clock	Tool Opened	7:51 AM A.M. P.M.		Tool Closed	8:51 AM A.M. P.M.	
Initial Hydro Mud Pres.					Remarks	Tool opened at 9:16 with good blow, gas to				
Initial Closed in Pres.						surface in 4 minutes, not enough to gauge. Rotated				
Initial Flow Pres.			1 2			tool for a 30 min. ICIP. Reopened tool with good				
Final Flow Pres.			1 2			blow for a 60 min. final flow. Took a 30 min. FCIP.				
Final Closed in Pres.						* Questionable				
Final Hydro Mud Pres.										

FORMATION TEST DATA

5

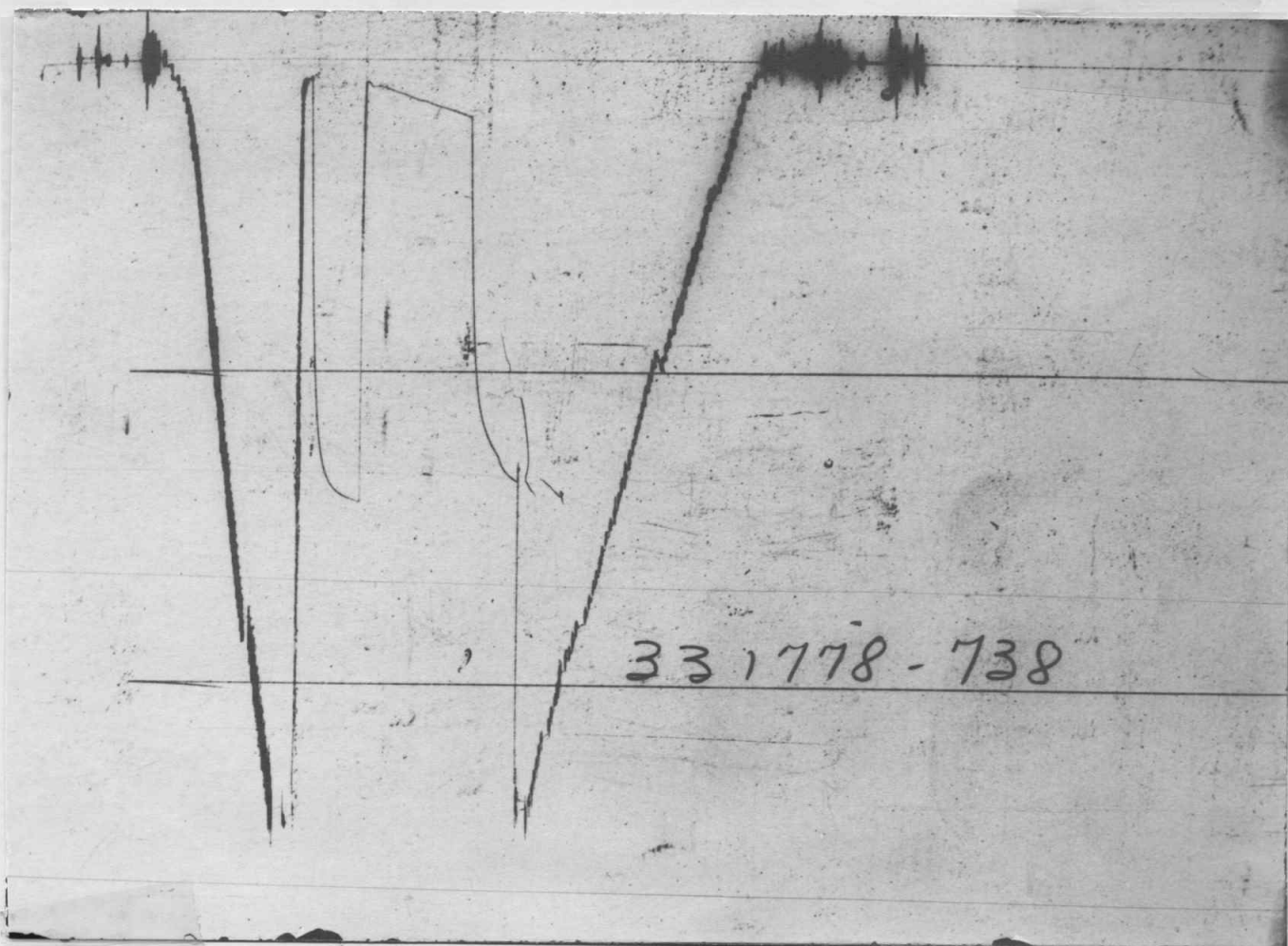
HERTEIN
Lease Name
1
Well No.
2
Test No.
CONTINENTAL OIL COMPANY
Lease Owner/Company Name
PRATT
County
PRATT
State
KANSAS
Owner's District

Gauge No. 738			Depth 4369			Clock 12 hour		Ticket No. 331778		
First Flow Period			Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\phi}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\phi}$	PSIG Temp. Corr.
P ₀	.000	134	.000		66	.000	85	.000		187
P ₁	.035	66	.020		874	.102	104	.020		802
P ₂			.040		1194	.204	134	.040		1061
P ₃			.060		1303	.306	158	.060		1153
P ₄			.080		1350	.408	187	.080		1204
P ₅			.100		1374			.100		1240
P ₆			.120		1389			.120		1266
P ₇			.140		1399			.140		1307
P ₈			.160		1406			.160		1328
P ₉			.180		1412			.180		1341
P ₁₀			.200		1416			.200		1350

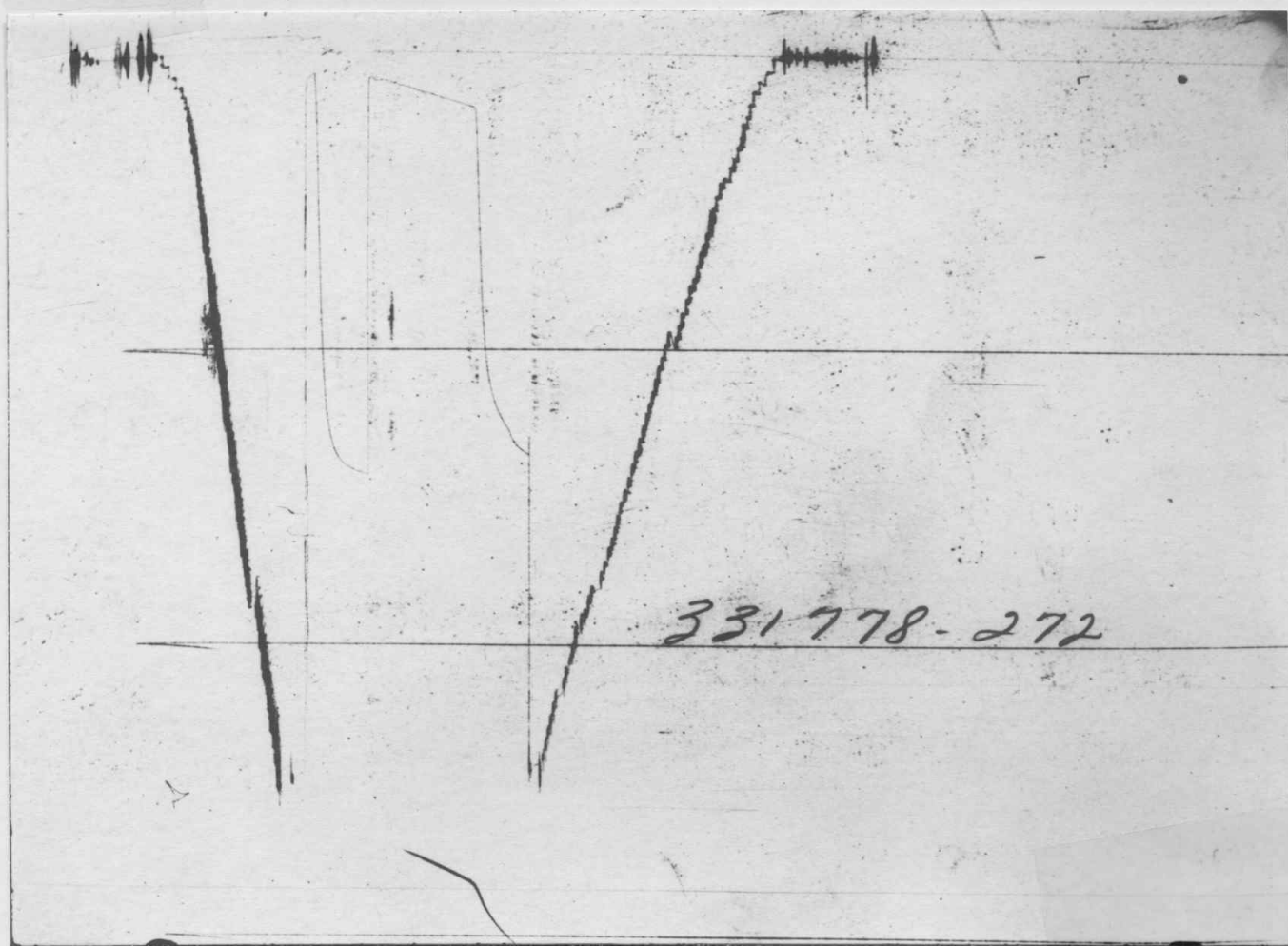
Gauge No. 272			Depth 4396			Clock 12 hour				
P ₀	.000	124*	.000		71	.000	91	.000		185
P ₁	.035	71	.0205		742	.103	103	.0207		730
P ₂			.0410		1151	.206	133	.0414		1033
P ₃			.0615		1289	.309	158	.0621		1138
P ₄			.0820		1345	.412	185	.0828		1193
P ₅			.1025		1372			.1035		1233
P ₆			.1230		1389			.1242		1263
P ₇			.1435		1399			.1449		1304
P ₈			.1640		1407			.1656		1326
P ₉			.1845		1413			.1863		1341
P ₁₀			.2050		1419			.2070		1352
Reading Interval			3			15		3 Minutes		
REMARKS: * Questionable										

SPECIAL PRESSURE DATA

↑
PRESSURE
↓



← TIME →



Flow Time	1st 10	Min.	2nd 60	Min.	Date	3-13-62		Ticket Number	331779 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	BILL IVERSON	
Depth Top Gauge	4394	Ft.	No	Blanked Off	Drilling Contractor	SIERRA PET. CO., INC.				
BT. P.R.D. No.	738		12	Hour Clock	Elevation	1954' DF		Top Packer	4410 & 4405'	
Initial Hydro Mud Pressure	2465		2464		Total Depth	4484'		Bottom Packer	4450'	
Initial Closed in Pres.	1395		1399		Interval Tested	4410-4450'		Formation Tested	Arbuckle	
Initial Flow Pres.	85		1 52 2 64		Casing or Hole Size	9"		Casing Perfs. { Top Bot.	Net 30'	
Final Flow Pres.	145		1 62 2 149		Surface Choke	1"		Bottom Choke	5/8"	
Final Closed in Pres.	1185		1197		Size & Kind Drill Pipe	4 1/2" FH		Drill Collars Above Tester	2 5/8"	
Final Hydro Mud Pressure	2445		2460		Mud Weight	10.1		Mud Viscosity	54	
Depth Cen. Gauge	4445	Ft.	yes	Blanked Off	Temperature	114		Anchor Size ID 3.82 & Length OD 5	X	
BT. P.R.D. No.	272		12	Hour Clock	Depths Mea. From	KB		Depth of Tester Valve	4390' Ft.	
Initial Hydro Mud Pres.	2475		2480		TYPE AMOUNT	Cushion none		Depth Back Pres. Valve	4385' Ft.	
Initial Closed in Pres.	1425		1414		Recovered	170		Feet of heavy oil & gas cut mud		
Initial Flow Pres.	80		1 81 2 89		Recovered	240		Feet of free oil		
Final Flow Pres.	165		1 80 2 164		Recovered			Feet of		
Final Closed in Pres.	1225		1218		Recovered			Feet of		
Final Hydro Mud Pres.	2465		2480		Oil A.P.I. Gravity	36		Water Spec. Gravity	none	
Depth Bot. Gauge	4480	Ft.	yes	Blanked Off	Gas Gravity			Surface Pressure	psi	
BT. P.R.D. No.	1738		24	Hour Clock	Tool Opened	2:38 PM		A.M. P.M. Tool Closed	3:38 PM A.M. P.M.	
Initial Hydro Mud Pres.	Blanked Off				Remarks	Tool open at 1:58 with good blow for a 10				
Initial Closed in Pres.					min first flow. Closed at 2:08 for a 30 min. ICIP.					
Initial Flow Pres.	1				Reopened tool at 2:38 with good blow, gas to surface					
Final Flow Pres.	1				in 7 minutes, not enough to measure. Closed at					
Final Closed in Pres.	2				3:38 for a 30 min. final closed in pressure.					
Final Hydro Mud Pres.										

FORMATION TEST DATA

5

HERTEIN

Lease Name

Well No.

Test No.

Field Area

County

Pratt

State

Kansas

Owner's District

CONTINENTAL OIL COMPANY

Lease Owner/Company Name

KANSAS

Gauge No. 738			Depth 4394			Clock 12 hour		Ticket No. 331779		
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	52	.000		62	.000	64	.000		149
P ₁	.067	62	.0223		806	.109	89	.021		876
P ₂			.0446		1124	.218	121	.042		939
P ₃			.0669		1241	.327	136	.063		1012
P ₄			.0892		1286	.436	149	.084		1072
P ₅			.1115		1319			.105		1099
P ₆			.1338		1342			.126		1129
P ₇			.1561		1362			.147		1151
P ₈			.1784		1375			.168		1167
P ₉			.2007		1388			.189		1185
P ₁₀			.2230		1399			.210		1197

Gauge No. 272			Depth 4445			Clock 12 hour				
P ₀	.000	81	.000		80	.000	89	.000		164
P ₁	.063	80	.021		661	.1035	104	.0202		661
P ₂			.042		1129	.2070	136	.0404		925
P ₃			.063		1238	.3105	151	.0606		1026
P ₄			.084		1293	.4140	164	.0808		1081
P ₅			.105		1330			.1010		1118
P ₆			.126		1357			.1212		1145
P ₇			.147		1377			.1414		1168
P ₈			.168		1392			.1616		1188
P ₉			.189		1405			.1818		1204
P ₁₀			.210		1414			.2020		1218
Reading Interval			3			15		3 Minutes		
REMARKS: Readings on BT 738 Questionable due to stair stepping on closed in pressures.										

SPECIAL PRESSURE DATA

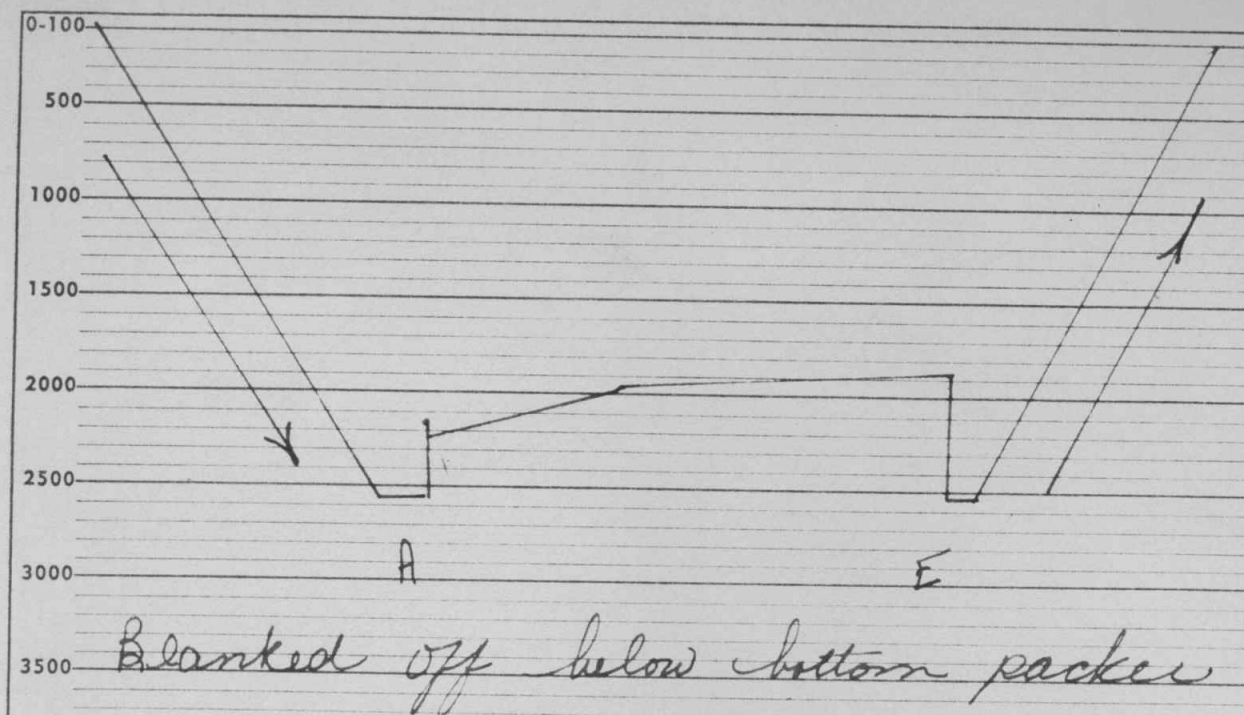
PRESSURE

TIME

331779-738

331779-272

EACH HORIZONTAL LINE EQUALS 1000 PSI



331779

A—Initial Mud Weight
 B—Initial Flow
 C—Final Flow
 D—Closed In Pressure
 E—Final Mud Weight