

Flow Time	1st 5 Min.	2nd 60 Min.	Date	3-31-63	Ticket Number	330617 - S
Closed In Press. Time	1st 30 Min.	2nd 29 Min.	Kind of Job	OPEN HOLE	Halliburton District	ELDORADO, KS.
Pressure Readings	Field	Office Corrected	Tester	GASPERSON	Witness	-
Depth Top Gauge	2418' Ft.	NO Blanked Off	Drilling Contractor	WHITE AND ELLIS DRILLING, INC.	Elevation	1313' K.B.
BT. P.R.D. No.	538	12 Hour Clock	Total Depth	2433'	Top Packer	-
Initial Hydro Mud Pressure	1256	1270	Bottom Packer	2424'	Formation Tested	VIOLA
Initial Closed in Pres.	680	684	Interval Tested	2424' - 2433'	Casing or Hole Size	7 7/8"
Initial Flow Pres.	18	1 14	2 27	Surface Choke	1"	Bottom Choke
Final Flow Pres.	66	1 26	2 71		3/4"	
Final Closed in Pres.	596	604	Size & Kind Drill Pipe	4 1/2" EXTRA HOLE	Drill Collars Above Tester	I.D. - LENGTH 2 1/4" x 119'
Final Hydro Mud Pressure	-	1261	Mud Weight	10	Mud Viscosity	39
Depth Cen. Gauge	Ft.	Blanked Off	Temperature	C-100 °F Est. °F Actual	Anchor Size & Length	ID 3 1/2" OD 4" X 9'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHING	Depth of Tester Valve	2416' Ft.
Initial Hydro Mud Pres.			Cushion	- Ft.	Depth Back Pres. Valve	- Ft.
Initial Closed in Pres.			Recovered	130' Feet of	oil	
Initial Flow Pres.			Recovered	40' Feet of	slightly watery mud	
Final Flow Pres.			Recovered	Feet of		
Final Closed in Pres.			Recovered	Feet of		
Final Hydro Mud Pres.			Oil A.P.I. Gravity	40	Water Spec. Gravity	-
Depth Bot. Gauge	2431' Ft.	YES Blanked Off	Gas Gravity	-	Surface Pressure	0# psi
BT. P.R.D. No.	536	12 Hour Clock	Tool Opened	4:30 PM	A.M. P.M.	Tool Closed 6:05 PM A.M. P.M.
Initial Hydro Mud Pres.		1280	Remarks	Tool opened @ 4:30 PM for a 5 minute first		
Initial Closed in Pres.		688	flow. Tool closed @ 4:35 PM. Rotated tool for a			
Initial Flow Pres.		1 16	30 minute initial closed in pressure. Tool re-open-			
Final Flow Pres.		1 28	ed @ 5:05 PM with a weak blow, which continued			
Final Closed in Pres.		608	throughout the test. Tool closed @ 6:05 PM. Took a			
Final Hydro Mud Pres.		1251	29 minute final closed in pressure. Tool off bottom @ 6:34 PM.			

Logal Location Sec. - Twp. - Rng. 22 - 25 - 5E - SW-NW-1E
 Lease Name PORTER
 Well No. 1
 Test No. 1
 Field Area
 County BUTLER
 State KANSAS
 Lease Owner/Company Name CITIES SERVICE PETROLEUM COMPANY
 Owner's District ELDORADO, KS.

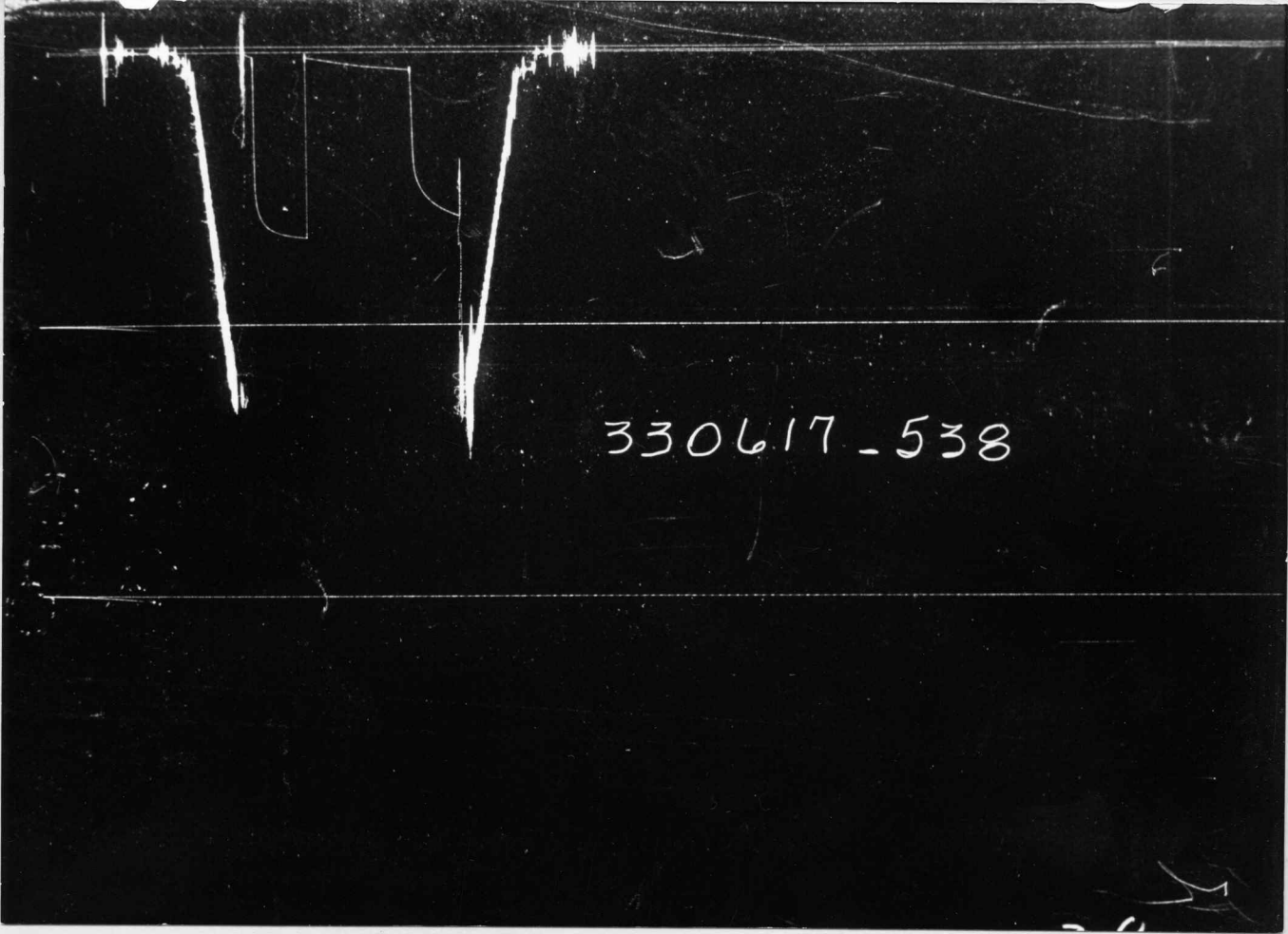
FORMATION TEST DATA

5

22

Gauge No. 538		Depth 2418'		Clock 12 hour		Ticket No. 330617				
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	14	.000		26	.000	27	.000		71
P ₁	.0068	16	.021		589	.1018	43	.0193		450
P ₂	.0136	18	.042		631	.2036	56	.0386		498
P ₃	.0204	21	.063		650	.3054	64	.0579		527
P ₄	.0272	24	.084		661	.407	71	.0772		547
P ₅	.034	26	.105		669			.0965		562
P ₆			.126		673			.1158		573
P ₇			.147		677			.1351		582
P ₈			.168		680			.1544		590
P ₉			.189		683			.1737		598
P ₁₀			.210		684			.193		604
Gauge No. 536		Depth 2431'		Clock 12 hour						
P ₀	.000	16	.000		28	.000	37	.000		74
P ₁	.0054	21	.020		610	.101	43	.0187		471
P ₂	.0108	23	.040		642	.202	57	.0374		509
P ₃	.0162	25	.060		658	.303	65	.0561		535
P ₄	.0216	26	.080		667	.404	74	.0748		553
P ₅	.027	28	.100		673			.0935		567
P ₆			.120		677			.1122		578
P ₇			.140		681			.1309		587
P ₈			.160		685			.1496		596
P ₉			.180		687			.1683		602
P ₁₀			.200		688			.187		608
Reading Interval	1		3			15		2.9		Minutes
REMARKS:										

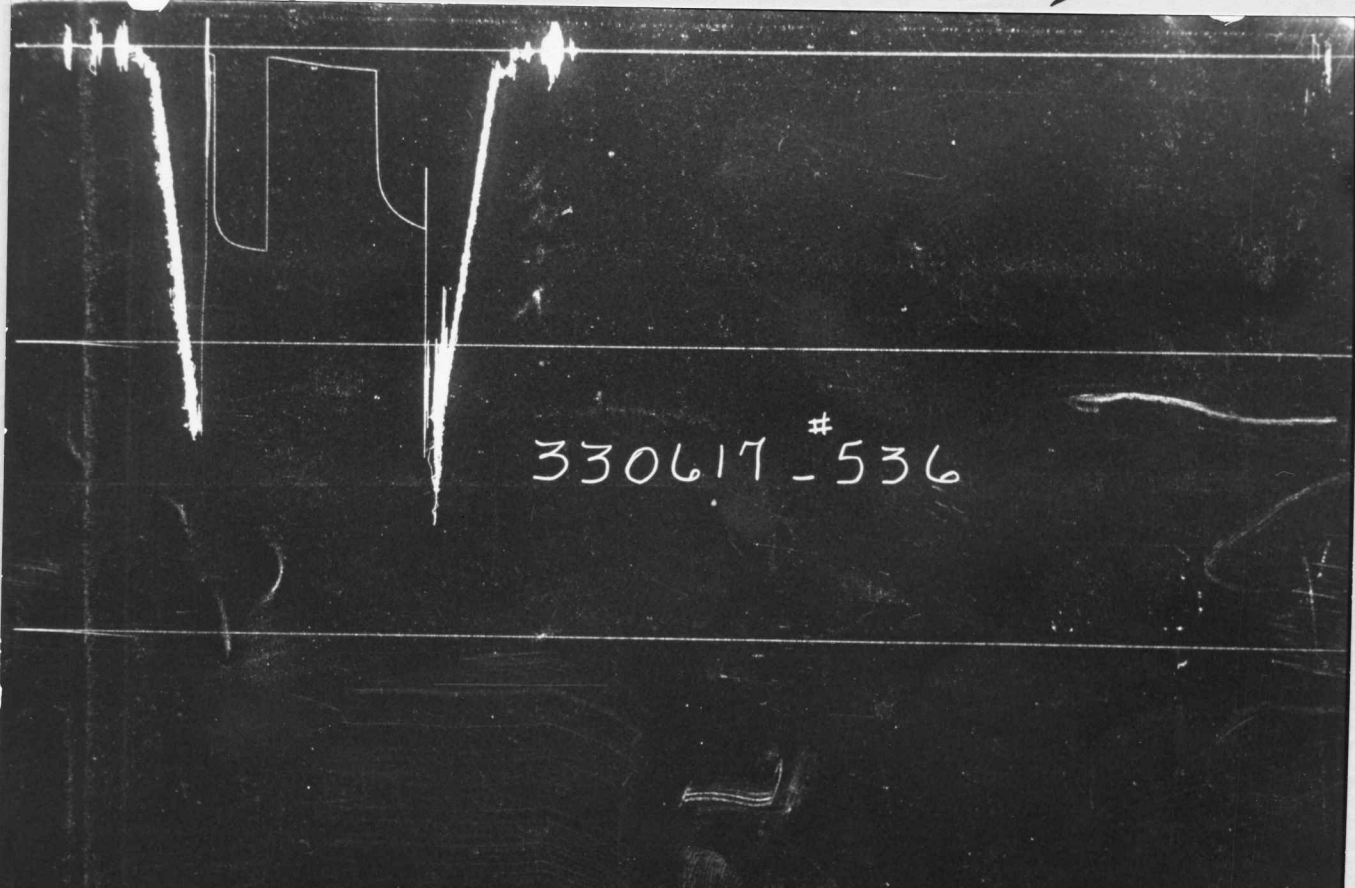
SPECIAL PRESSURE DATA



330617-538

PRESSURE

TIME



330617-536

Flow Time	1st 10	Min.	2nd 60	Min.	Date	4-1-63	Ticket Number	330618 S
Closed In Press. Time	1st 30	Min.	2nd 30	Min.	Kind of Job	Open hole	Halliburton District	El Dorado
Pressure Readings	Field		Office Corrected		Tester	W. Gasperson	Witness	Jonnie Heck
Depth Top Gauge	2524	Ft.	no	Blanked Off	Drilling Contractor	WHITE & ELLIS DRILLING INC.		
BT. P.R.D. No.	538		12	Hour Clock	Elevation	1313' KB	Top Packer	
Initial Hydro Mud Pressure	1314		1303		Total Depth	2537'	Bottom Packer	2522'
Initial Closed in Pres.	473		472		Interval Tested	2522-2537'	Formation Tested	Simpson
Initial Flow Pres.	19		1 19 2 2 4		Casing or Hole Size	7 7/8"	Casing Perfs.	Top Bot.
Final Flow Pres.	19		1 19 2 22		Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	246		246		Size & Kind Drill Pipe	4 1/2" XH	Drill Collars Above Tester	I.D. - LENGTH 120' x 2 1/4"
Final Hydro Mud Pressure			1286		Mud Weight	9.9	Mud Viscosity	36
Depth Cen. Gauge		Ft.		Blanked Off	Temperature	C 100	Anchor Size & Length	ID 3 1/2 OD 4 X 15
BT. P.R.D. No.				Hour Clock	Depths Mea. From	Kelly bushing	Depth of Tester Valve	2500 Ft.
Initial Hydro Mud Pres.					TYPE AMOUNT		Depth Back Pres. Valve	Ft.
Initial Closed in Pres.					Cushion			
Initial Flow Pres.			1		Recovered	5	Feet of drilling mud	Mes. From Tester Valve
Final Flow Pres.			1		Recovered		Feet of	
Final Closed in Pres.			2		Recovered		Feet of	
Final Hydro Mud Pres.					Recovered		Feet of	
Depth Bot. Gauge	2535	Ft.	yes	Blanked Off	Oil A.P.I. Gravity		Water Spec. Gravity	
BT. P.R.D. No.	536		12	Hour Clock	Gas Gravity		Surface Pressure	psi
Initial Hydro Mud Pres.			1311		Tool Opened	5:05 PM	Tool Closed	6:45 PM
Initial Closed in Pres.			475		Remarks	Tool opened at 5:05 PM for a 10 minute		
Initial Flow Pres.			1 21 2 31			first flow. Rotated at 5:15 for a 30 minute		
Final Flow Pres.			1 21 2 24			initial closed in pressure. Tool re-opened at 5:45		
Final Closed in Pres.			247			with no blow. Took a 30 minute final closed in		
Final Hydro Mud Pres.			1296			pressure, at 6:45. Off bottom at 7:15 PM.		

FORMATION TEST DATA

PORTER
 Lease Name
 22 25 5E
 SW NW NE
 Well No.
 C-1
 2
 Test No.
 EL DORADO
 County
 BUTLER
 State
 KANSAS
 CITIES SERVICE PETROLEUM COMPANY
 Lease Owner/Company Name
 EL DORADO
 Owner's District
 Dec 22

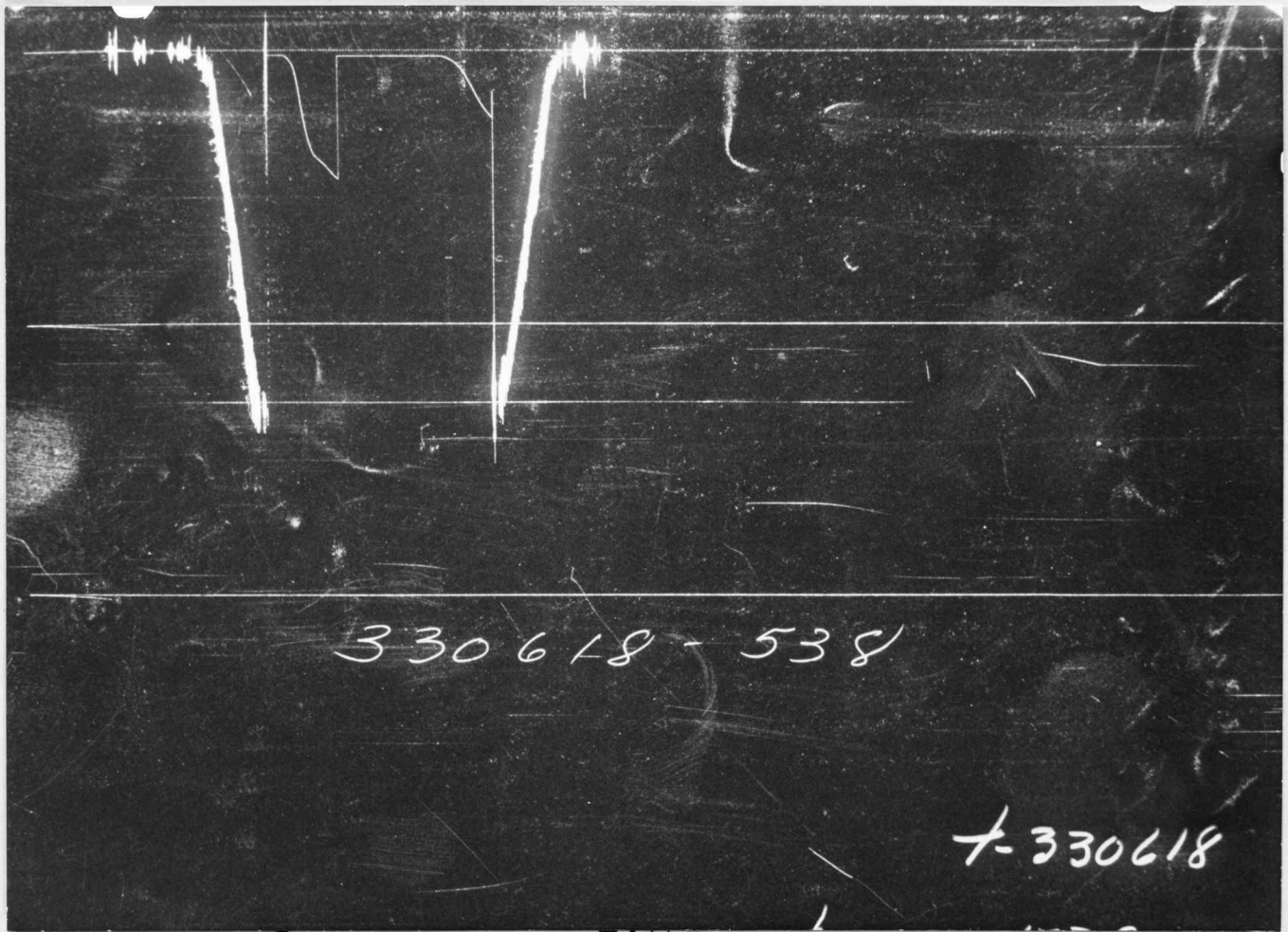
Gauge No. 538		Depth 2524		Clock 12 hour		Ticket No. 330618				
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.
P ₀	.000	19	.000		19	.000	24	.000		22
P ₁	.064	19	.0216		32	.405	22	.0202		27
P ₂			.0432		71			.0404		35
P ₃			.0648		168			.0606		48
P ₄			.0864		280			.0808		69
P ₅			.1080		352			.1010		98
P ₆			.1296		390			.1212		132
P ₇			.1512		408			.1414		168
P ₈			.1728		429			.1616		200
P ₉			.1944		454			.1818		225
P ₁₀			.2160		472			.2020		246

Gauge No. 536		Depth 2535		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	21	.000		21	.000	31	.000		24	
P ₁	.057	21	.0207		34	.1015	24	.0193		29	
P ₂			.0414		83	.2030	24	.0386		37	
P ₃			.0621		192	.3045	24	.0579		49	
P ₄			.0828		294	.4060	24	.0772		70	
P ₅			.1035		362			.0965		101	
P ₆			.1242		394			.1158		136	
P ₇			.1449		412			.1351		172	
P ₈			.1656		434			.1544		203	
P ₉			.1863		457			.1737		228	
P ₁₀			.2070		475			.1930		247	
Reading Interval			3			15		3			Minutes

REMARKS:

SPECIAL PRESSURE DATA

251-

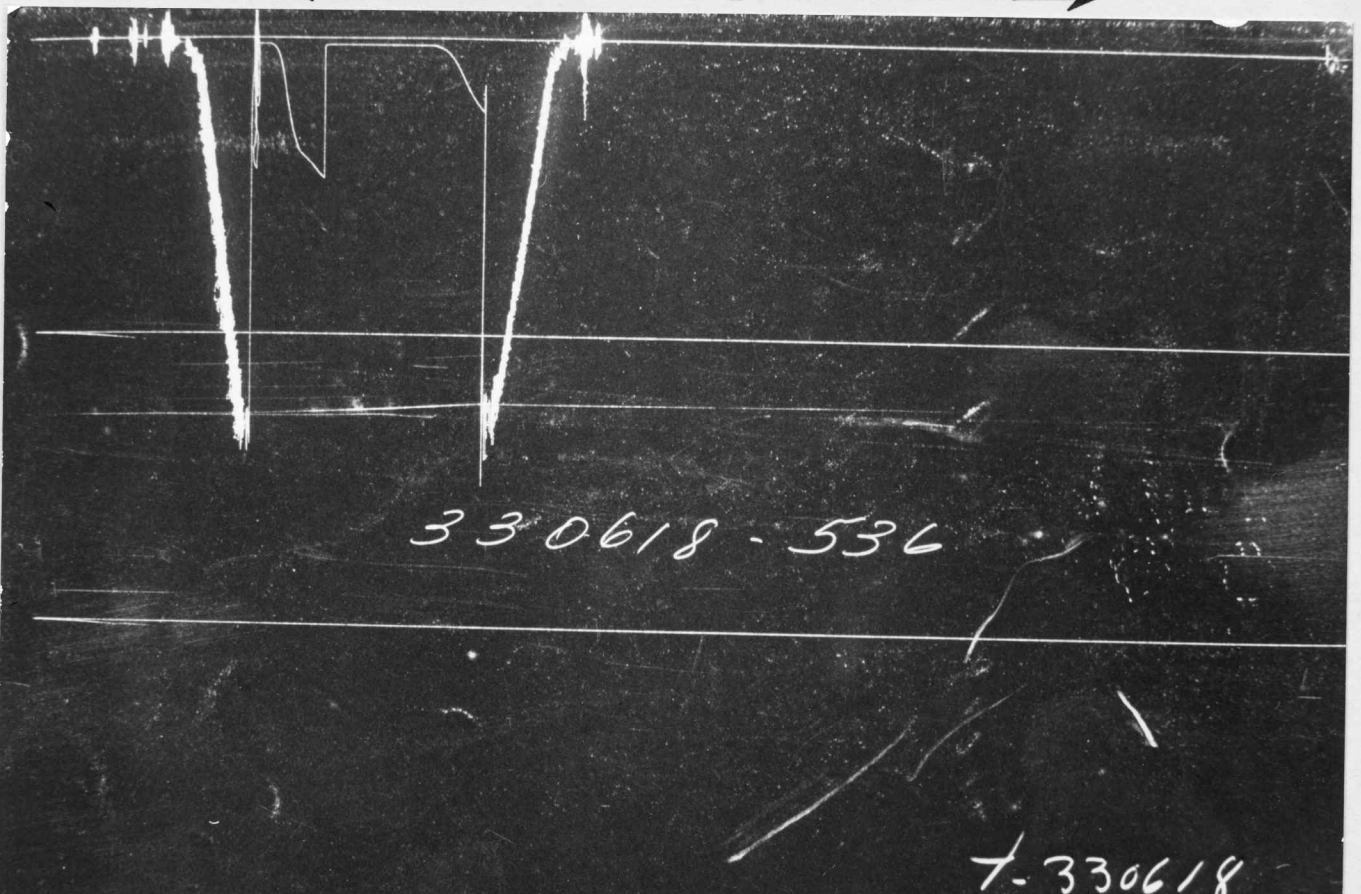


PRESSURE ↑

330618-538

7-330618

← TIME →



330618-536

7-330618

Flow Time	1st 10	Min.	2nd 61	Min.	Date	4-2-63	Ticket Number	330619-S
Closed In Press. Time	1st 31	Min.	2nd 30	Min.	Kind of Job	Open hole	Halliburton District	El Dorado
Pressure Readings	Field		Office Corrected		Tester	W. Gasperson	Witness	John Heck
Depth Top Gauge	2526	Ft.	no	Blanked Off	Drilling Contractor	WHITE & ELLIS DRILLING INC.		
BT. P.R.D. No.	536		12	Hour Clock	Elevation	1313' KB	Top Packer	-
Initial Hydro Mud Pressure	1286		1321		Total Depth	2544'	Bottom Packer	2540'
Initial Closed in Pres.	862		868		Interval Tested	2540-2544'	Formation Tested	Arbuckle
Initial Flow Pres.	9		1 15		Casing or Hole Size	7 7/8"	Casing Perfs.	Top
Final Flow Pres.	27		1 18		Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	844		836		Size & Kind Drill Pipe	4 1/2" Ex Hole	Drill Collars Above Tester	I.D. - LENGTH 120' x 2 1/4"
Final Hydro Mud Pressure	1286		1259		Mud Weight	9.9	Mud Viscosity	36
Depth Cen. Gauge		Ft.		Blanked Off	Temperature	C 100	Anchor Size & Length	ID 3 1/2" X 4" OD 4" 4"
BT. P.R.D. No.				Hour Clock	Depths Mea. From	Kelly bushing	Depth of Tester Valve	2524 Ft.
Initial Hydro Mud Pres.					Cushion		Depth Back Pres. Valve	Ft.
Initial Closed in Pres.					Recovered	10	Feet of drilling mud	
Initial Flow Pres.			1		Recovered		Feet of	
Final Flow Pres.			1		Recovered		Feet of	
Final Closed in Pres.			2		Recovered		Feet of	
Final Hydro Mud Pres.					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	1:55 AM	A.M. Tool Closed	A.M. P.M.
Initial Hydro Mud Pres.					Remarks	Tool opened for a 10 minute first flow.		
Initial Closed in Pres.						Rotated for a 31 minute initial closed in pressure		
Initial Flow Pres.			1			at 2:05. Tool re-opened at 2:36 with no blow through		
Final Flow Pres.			2			hour test. Took a 30 minute final closed in		
Final Closed in Pres.						pressure.		
Final Hydro Mud Pres.								

Legal Location: SW NW 1E 22 25 SE
 Lease Name: PORTER
 Well No.: G-1
 Test No.: 3
 Field: DORADO
 County: BUTLER
 State: KANSAS
 Owner's District: EL DORADO
 Lease Owner/Company Name: CITIES SERVICE PETROLEUM COMPANY

FORMATION TEST DATA
SPECIAL PRESSURE DATA

5
 22-25-SE

Gauge No. 536		Depth 2526'			Clock 12 hour		Ticket No. 330619			
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	15	.000		18	.000	19	.000		31
P ₁	.0148	15	.0212		553	.105	23	.0218		552
P ₂	.0296	16	.0424		698	.210	27	.0436		670
P ₃	.0444	16	.0636		757	.315	29	.0654		724
P ₄	.0592	17	.0848		800	.427	31*	.0872		756
P ₅	.0740	18	.1060		822			.1090		780
P ₆			.1272		837			.1308		797
P ₇			.1484		848			.1526		811
P ₈			.1696		857			.1744		821
P ₉			.1908		863			.1962		830
P ₁₀			.2120		868			.2180		836

Gauge No.	Depth			Clock		hour		
P ₀								
P ₁								
P ₂								
P ₃								
P ₄								
P ₅								
P ₆								
P ₇								
P ₈								
P ₉								
P ₁₀								

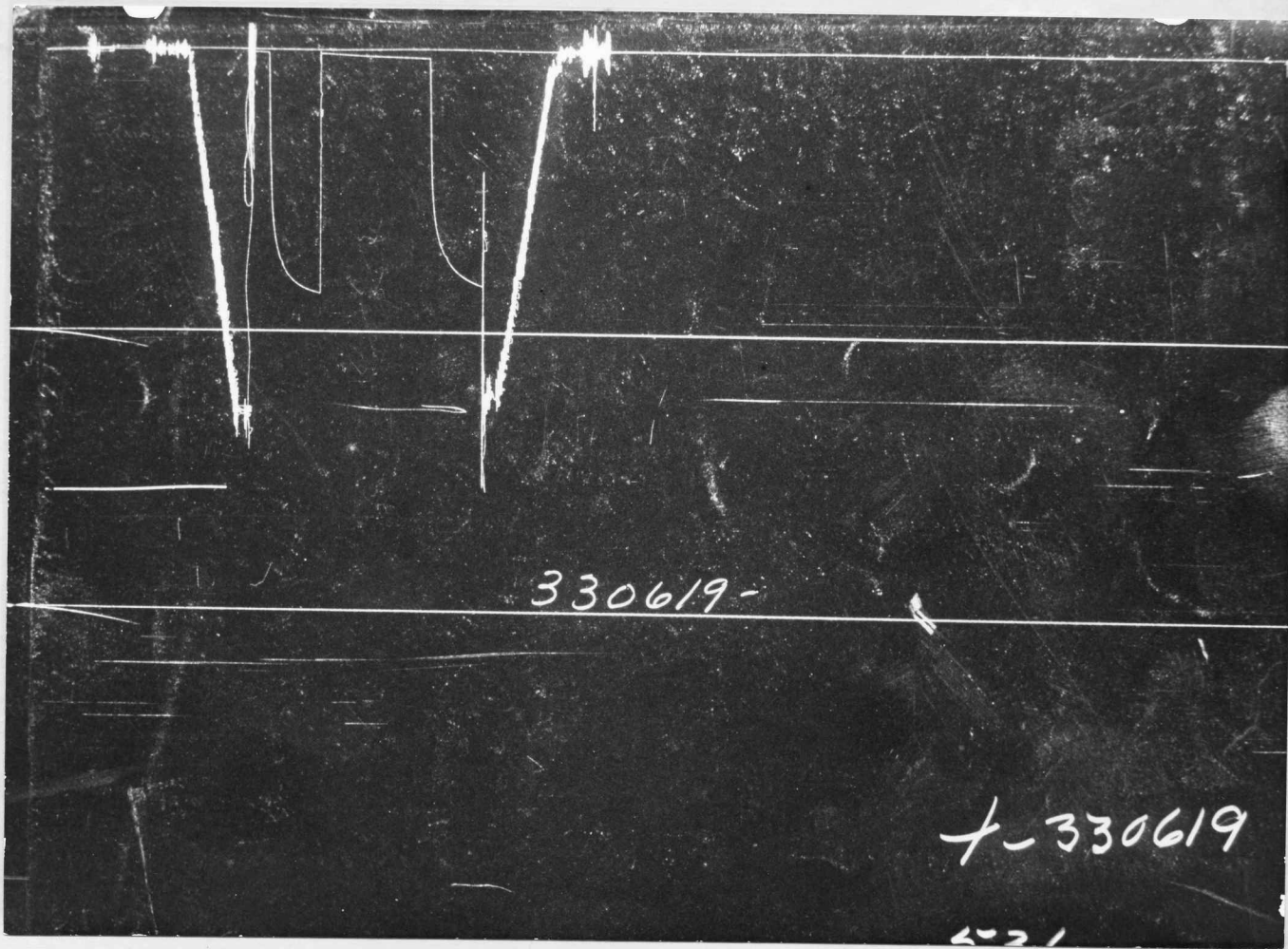
Reading Interval 2 3.1 15 3 Minutes

REMARKS: *EQUAL TO 16 MINUTES.

SPECIAL PRESSURE DATA

255-57

↑
PRESSURE
↓



← TIME →

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

Flow Time	1st 5	Min.	2nd 60	Min.	Date	4-2-63	Ticket Number	330620 S
Closed In Press. Time	1st 31	Min.	2nd 31	Min.	Kind of Job	Open hole test	Halliburton District	El Dorado
Pressure Readings	Field		Office Corrected		Tester	Gasperson	Witness	Mr. Heck
Depth Top Gauge	2529	Ft.	NO	Blanked Off	Drilling Contractor	White & Ellis Drilling Company Inc.		
BT. P.R.D. No.	538		12	Hour Clock	Elevation	1313'	Top Packer	-
Initial Hydro Mud Pressure	1331		1301		Total Depth	2549'	Bottom Packer	2543'
Initial Closed in Pres.	888		875		Interval Tested	2543'-2549'	Formation Tested	Arbuckle
Initial Flow Pres.	-	1	8		Casing or Hole Size	7 7/8"	Casing Perfs.	Top
	19	2	14					Bot.
Final Flow Pres.	-	1	10		Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	850		833		Size & Kind Drill Pipe	4 1/2" XH	Drill Collars Above Tester	I.D. - LENGTH 2 1/4" x 120'
Final Hydro Mud Pressure	-		1300		Mud Weight	9.9	Mud Viscosity	39
Depth Cen. Gauge	2547	Ft.	YES	Blanked Off	Temperature	90	Anchor Size & Length	ID 3 1/2" X 6' OD 4"
BT. P.R.D. No.	536		12	Hour Clock	Depths Mea. From	Kelly Bushings	Depth of Tester Valve	2527' Ft.
Initial Hydro Mud Pres.	830		1301		Cushion		Depth Back Pres. Valve	- Ft.
Initial Closed in Pres.			887		Recovered	65	Feet of Slightly oil cut mud	
Initial Flow Pres.		1	18		Recovered		Feet of	
Final Flow Pres.		1	20		Recovered		Feet of	
Final Closed in Pres.			847		Recovered		Feet of	
Final Hydro Mud Pres.			1284		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	9:55	Tool Closed	11:31
Initial Hydro Mud Pres.					Remarks Opened tool for 5 minute 1st flow. Closed			
Initial Closed in Pres.					tool for 31 minute initial closed in pressure.			
Initial Flow Pres.		1			Reopened tool for 60 minute 2nd flow with very			
Final Flow Pres.		1			weak blow throughout test. Closed tool for 31			
Final Closed in Pres.					minute final closed in pressure.			
Final Hydro Mud Pres.								

FORMATION TEST DATA

SPECIAL PRESSURE DATA

PORTER
 Lease Name
 SEC. 22 - 25 - 5E
 Well No. 4
 Test No.
 FIELD EL DORADO
 County BUTLER
 State KANSAS
 CITIES SERVICE PETROLEUM COMPANY
 Lease Owner/Company Name
 EL DORADO - Dec 22 - 25 - 5E
 Owner's District

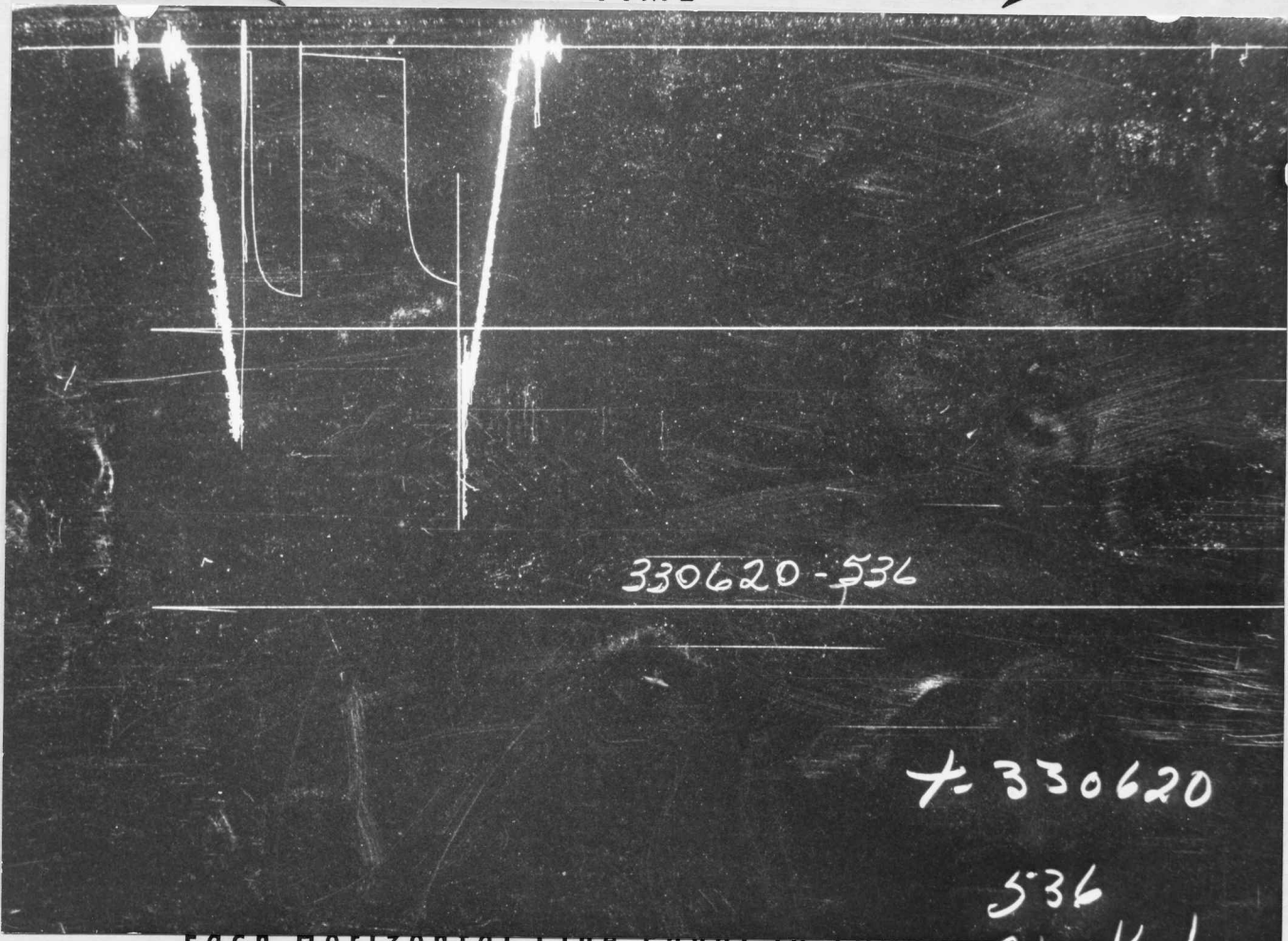
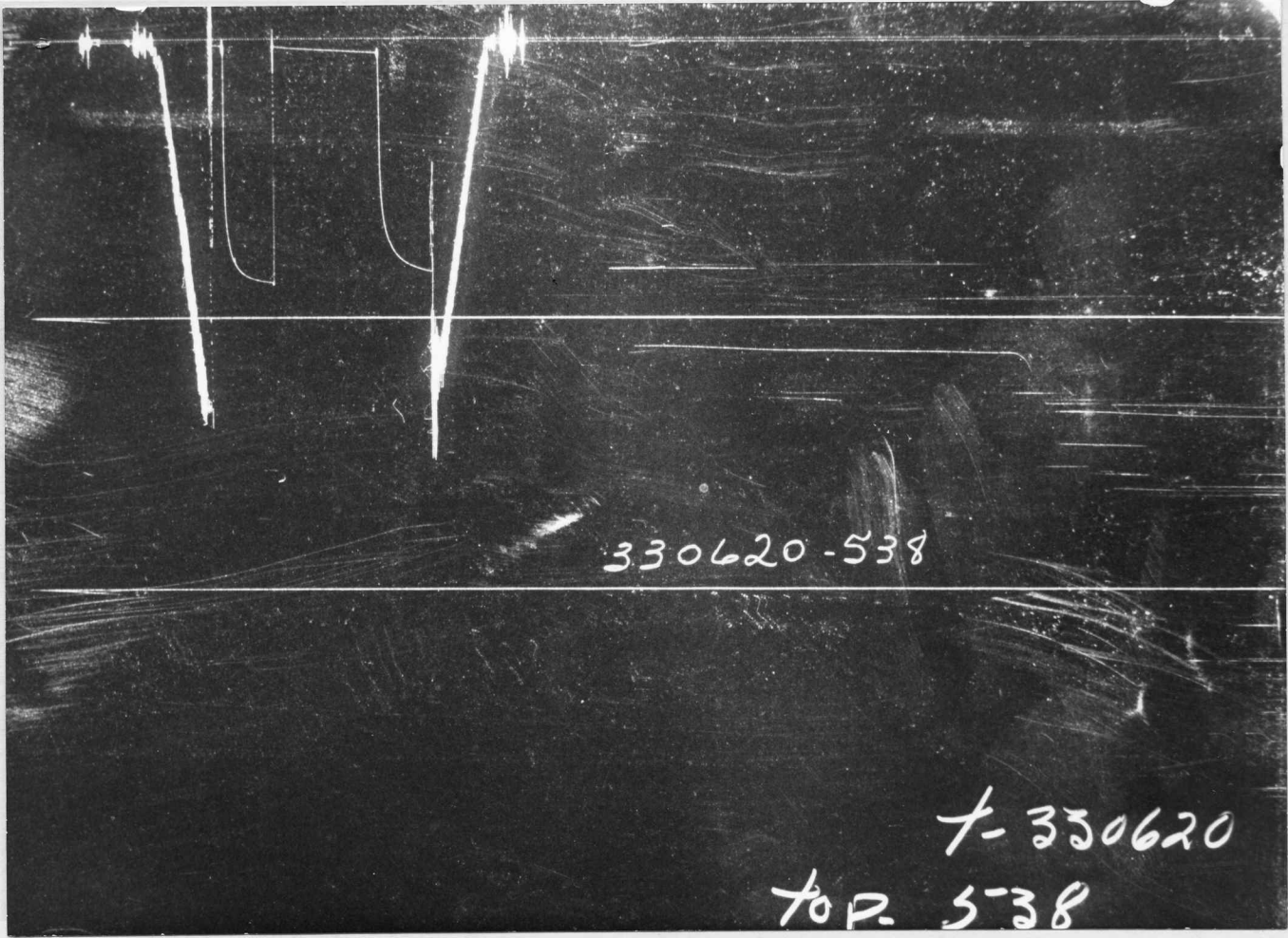
Gauge No. 538		Depth 2529'			Clock 12 hour		Ticket No. 330620			
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.
P ₀	.000	8	.000		10	.000	14	.000		36
P ₁	.045	10	.020		710	.1028	23	.021		640
P ₂			.040		790	.0256	27	.042		721
P ₃			.060		824	.3084	32	.063		761
P ₄			.080		843	.4110	36	.084		783
P ₅			.100		855			.105		798
P ₆			.120		863			.126		810
P ₇			.140		867			.147		817
P ₈			.160		871			.168		824
P ₉			.180		874			.189		830
P ₁₀			.200		875			.210		833

Gauge No. 536		Depth 2547'			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	18	.000		20	.000	29	.000		46
P ₁	.032	20	.0194		737	.101	31	.0206		654
P ₂			.0388		806	.202	37	.0412		734
P ₃			.0582		838	.303	42	.0618		771
P ₄			.0776		856	.404	46	.0824		794
P ₅			.0970		867			.1030		811
P ₆			.1164		874			.1236		822
P ₇			.1358		879			.1442		831
P ₈			.1552		882			.1648		837
P ₉			.1746		886			.1854		843
P ₁₀			.1940		887			.2060		847
Reading Interval			3.1			15		3.1 Minutes		

REMARKS:

SPECIAL PRESSURE DATA

255-5E



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