

Initial Closed In Time 30 Minutes			Date 3-7-61	
Tool Open 1st 1 2nd 60 Minutes			Ticket No. 284751	
Final Closed In Time 30 Minutes			HOWCO DISTRICT PRATT, KANSAS	
Depth Top Gauge 4374' Ft. Blanked Off NO			Kind of Job OPEN HOLE	
BT. P.R.D. No 538 12 Hr. Clock		CONTRACTOR PEEL BROTHERS INC. RIG #5		
Pressure Readings Field Office Corrected		HOLE & TOOL DATA		
Initial Hydro Mud Pressure 2388 2300		Elevation 2070' KB Top Packer Depth -		
Initial Closed in Pres. 1615 1603		Total Depth 4450' Bottom Packer Depth 4372'		
Initial Flow Pres. 62 68-112		Casing or Hole Size 7 7/8" Size & Type Wall Packer 6 3/4" ESWP		
Final Flow Pres. 472 100-470		Liner or Rothole Size 7 7/8" Size Bottom Choke 5/8"		
Final Closed in Pres. 1465 1457		Casing Perforations Top Bottom Size Surface Choke 1"		
Final Hydro Mud Pressure 2358 2289		Interval Tested 4372' - 4450' ID & Length - Air Chamber		
Depth Center Gauge 4440' Ft. Blanked Off YES		Formation Tested DOUGLAS ID & Length Drill Collars 2 1/4" X-		
BT. P.R.D. No 536 12 Hr. Clock		Est. Gauge Cel. 110 F° Size Drill Pipe 4 1/2" ACME		
Pressure Readings Field Office Corrected		MUD DATA 9.9 Viscosity 53		
Initial Hydro Mud Pressure 2429 2333		All depths measured from KELLY BUSHING No...Folders Reproduced 5		
Initial Closed in Pres. 1628 1638		REMARKS: Opened tool at 7:14. Closed		
Initial Flow Pres. 110 107-151		tool at 7:15 for ICIP. Reopened tool		
Final Flow Pres. 503 135-505		at 7:45 with good blow throughout test		
Final Closed in Pres. 1489 1488		Closed tool at 8:45 and off bottom		
Final Hydro Mud Pressure 2355 2317		at 9:15.		
Depth Bottom Gauge 4446' Ft. Blanked Off YES				
BT. P.R.D. No 1892 Hr. Clock				
Pressure Readings Field Office Corrected				
Initial Hydro Mud Pressure				
Initial Closed in Pres.		Recovered 885' Feet of Muddy salt water		
Initial Flow Pres.		Recovered Feet of		
Final Flow Pres.		Recovered Feet of		
Final Closed in Pres.		Recovered Feet of		
Final Hydro Mud Pressure		Witnessed By DAVE AUSTIN		
Amount-Type of Cushion NONE		Tester M. W. UNRUL		

DATE 1
 LEASE NAME
 WELL NO. 1
 TEST NO. 1
 COUNTY COMANCHE
 STATE KANSAS
 CITIES SERVICE PETROLEUM COMPANY
 LEASE OWNER
 OWNERS DISTRICT 26-325-18W

		Time	PSI		
Initial Hydro Mud Pressure			2300	DATE <u>3-7-61</u>	
1 st	Initial Flow		68	TICKET NO. <u>284751</u>	
	Final Flow	1 min.	100	LEASE DATE _____	
Initial Closed In Pressure		30 min.	1603		
2 nd	Initial Flow		112	Well No. <u>1</u> Test No. <u>1</u>	
	Final Flow	60 min.	470	BT No. <u>538</u> Depth <u>4374'</u>	
Final Closed In Pressure		30 min.	1457	12 Hr. Clock _____	
Final Hydro Mud Pressure			2289	Temp. Corr. <u>Cal-110</u> ° F	

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
PO	.000	68	.000	100	.000	112	.000	470
P1	.008	100	.0212	1506	.1047	230	.0214	1254
P2	.		.0424	1556	.2094	323	.0428	1321
P3	.		.0636	1574	.3141	400	.0642	1361
P4	.		.0848	1585	.419	470	.0856	1384
P5	.		.1060	1591	.		.1070	1404
P6	.		.1272	1595	.		.1284	1419
P7	.		.1484	1598	.		.1498	1433
P8	.		.1696	1600	.		.1712	1442
P9	.		.1908	1603	.		.1926	1451
P10	.		.212	1603	.		.214	1457
	Minute Intervals		3	Minute Intervals	15	Minute Intervals	3	Minute Intervals

Remarks: _____

COMPANY

CITIES SERVICE PETROLEUM COMPANY

5

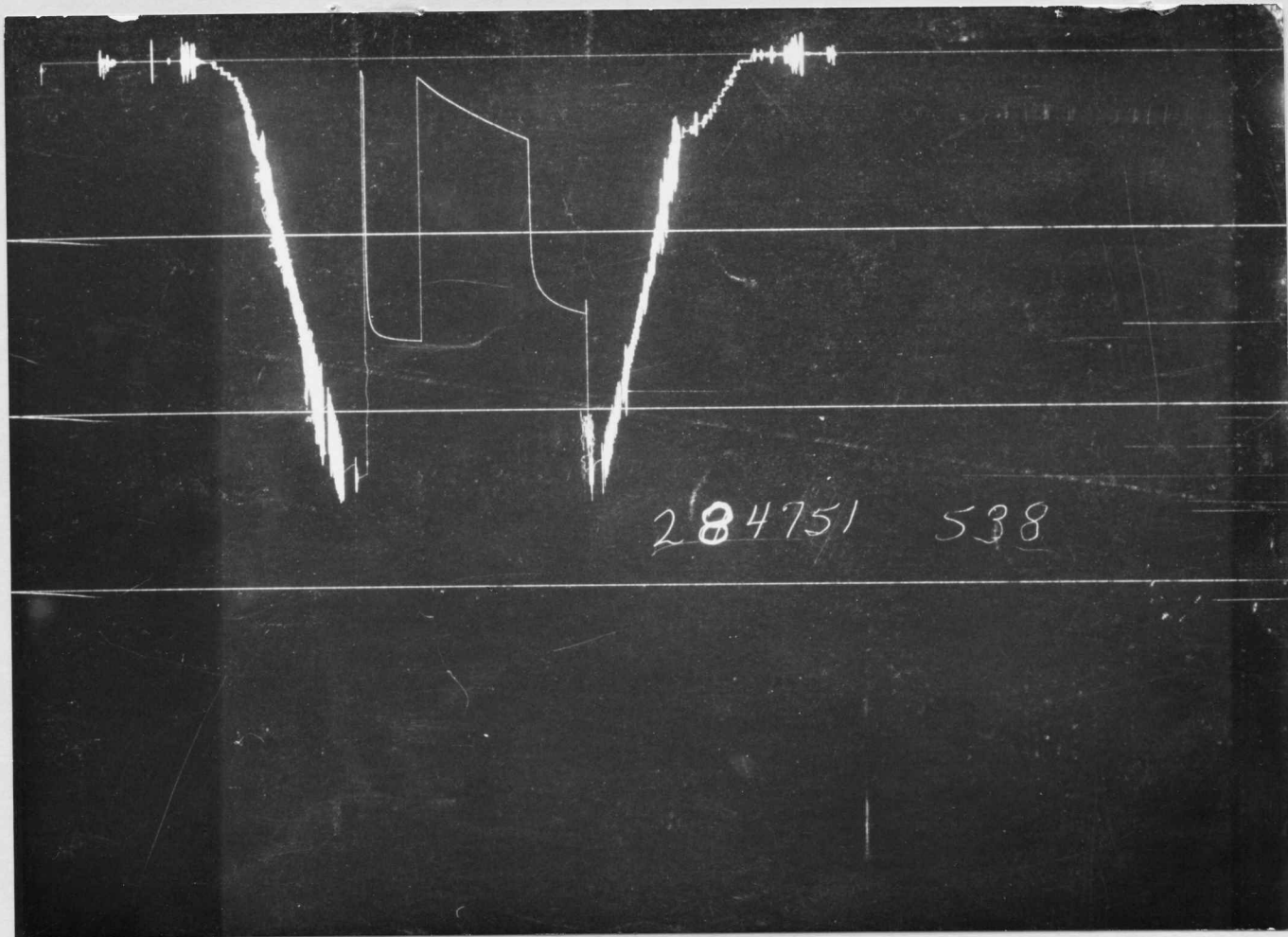
		Time	PSI
Initial Hydro Mud Pressure			2333
1st	Initial Flow		107
	Final Flow	1 min.	135
Initial Closed In Pressure		30 min.	1638
2nd	Initial Flow		151
	Final Flow	60 min.	505
Final Closed In Pressure		30 min.	1488
Final Hydro Mud Pressure			2317

DATE 3-7-61	
TICKET NO. 284751	
LEASE DATE	
Well No. 1	Test No. 1
BT No. 536	Depth 4440'
12 Hr. Clock	
Temp. Corr. Cal-110 ° F	

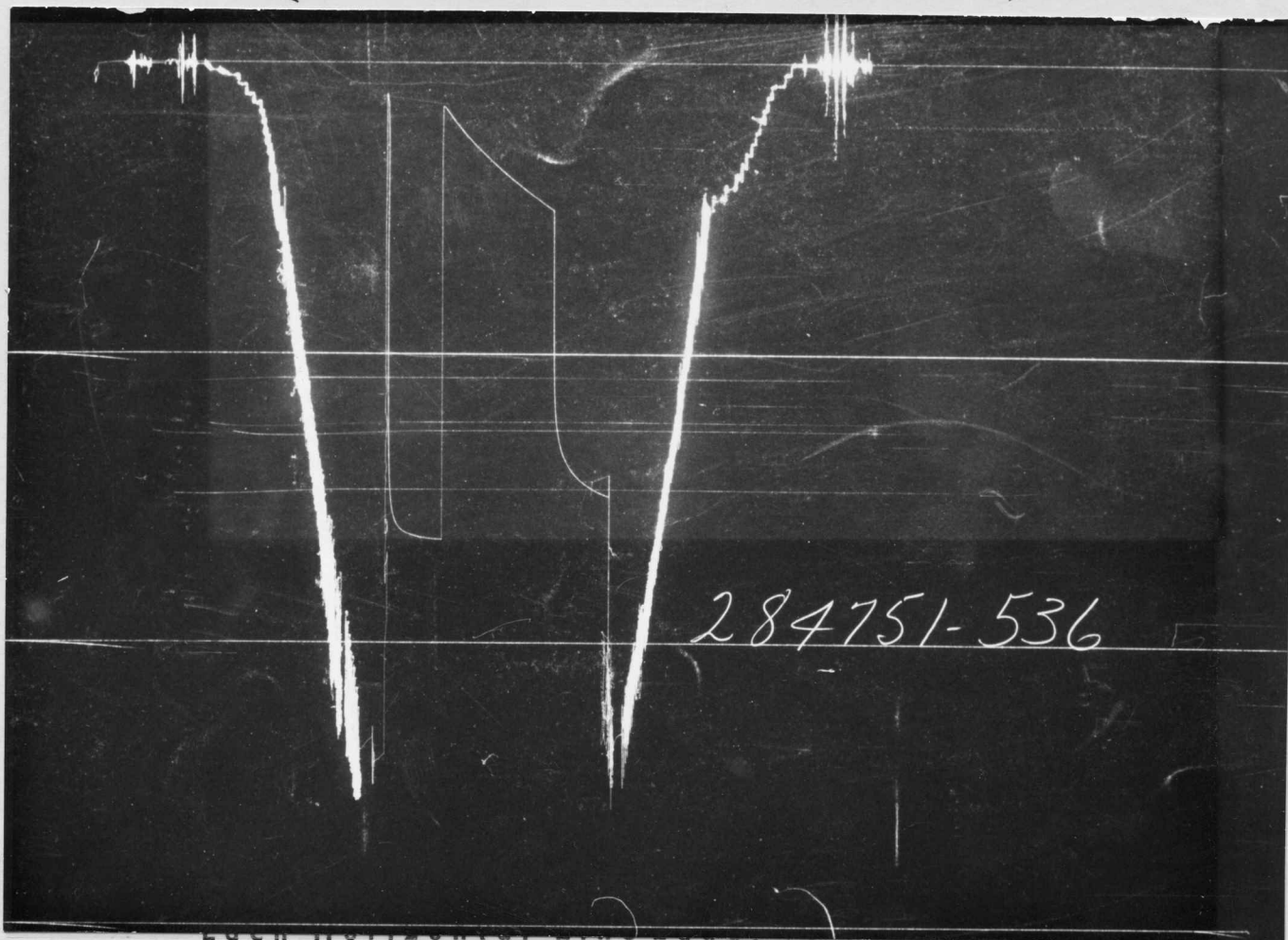
	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
PO	.000	107	.000	135	.000	151	.000	505
P1	.0060	135	.020	1542	.1052	265	.0217	1285
P2	.		.0414	1591	.2104	359	.0434	1355
P3	.		.0621	1610	.3156	438	.0651	1391
P4	.		.0828	1620	.421	505	.0868	1416
P5	.		.1035	1625	.		.1085	1436
P6	.		.1242	1631	.		.1302	1450
P7	.		.1449	1634	.		.1519	1463
P8	.		.1656	1636	.		.1736	1473
P9	.		.1863	1637	.		.1953	1481
P10	.		.207	1638	.		.217	1488
	Minute Intervals		3	Minute Intervals	15	Minute Intervals	3	Minute Intervals

Remarks:

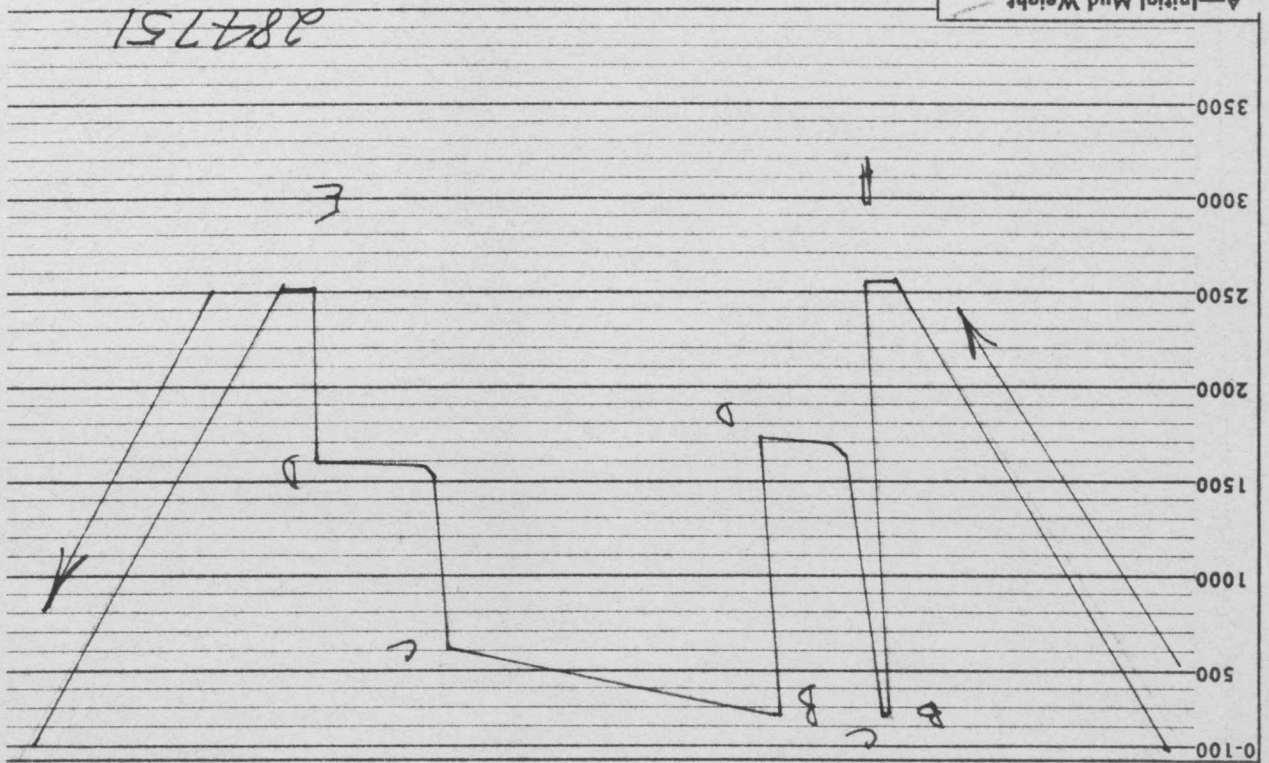
↑
PRESSURE
↓



← TIME →



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



284751-536

Initial Closed In Time 30 Minutes					Date 3-15-61	
Tool Open Flow Period 1st 1 2nd 60 Minutes					Ticket No. 303449	
Final Closed In Time 30 Minutes					Halliburton District Pratt	
Depth Top Gauge 5112 Ft. Blanked Off No					Kind of Job Open Hole	
BT. P.R.D. No 533 12 Hr. Clock			CONTRACTOR Peel Drlg Co.			
Pressure Readings Field Office Corrected			HOLE & TOOL DATA			
Initial Hydro Mud Pressure 2655 2652			Elevation 2068' DF		Top Packer Depth -	
Initial Closed in Pres. 960 956			Total Depth 5140'		Bottom Packer Depth 5120'	
Initial Flow Pres. 30 28-35			Casing or Hole Size 7 7/8"		Size & Type Wall Packer 6 3/4" ESWP	
Final Flow Pres. 50 33-43			Liner or Rathole Size		Size Bottom Choke 5/8"	
Final Closed in Pres. 1730 1738			Casing Perforations Top Bottom		Size Surface Choke 1"	
Final Hydro Mud Pressure 2615 2644			Interval Tested 5120-5140'		ID & Length Air Chamber -	
Depth Center Gauge Ft. Blanked Off			Formation Tested Miss		ID & Length Drill Collars 215.48	
BT. P.R.D. No Hr. Clock			Est. Gauge Depth Temp. 118 F°		Size Drill Pipe 4 1/2" Acme	
Pressure Readings Field Office Corrected			MUD DATA Weight 9.7		Viscosity 49	
Initial Hydro Mud Pressure			All depths measured from Kelly Bushing		No...Folders Reproduced 5	
Initial Closed in Pres.			REMARKS: Open tool at 2:03 with a good blow.			
Initial Flow Pres.			Closed at 2:04 for initial closed in press-			
Final Flow Pres.			ure. Reopen tool at 2:34 with a strong blow.			
Final Closed in Pres.			Gas to surface in 46 mins. Closed at 3:34			
Final Hydro Mud Pressure			for final closed in pressure. Off			
Depth Bottom Gauge 5137 Ft. Blanked Off Yes			bottom at 4:04.			
BT. P.R.D. No 376 12 Hr. Clock						
Pressure Readings Field Office Corrected						
Initial Hydro Mud Pressure 2600 2659						
Initial Closed in Pres. 975 962			Recovered 74		Feet of gas cut mud	
Initial Flow Pres. 40 45-48			Recovered		Feet of	
Final Flow Pres. 70 45-55			Recovered		Feet of	
Final Closed in Pres. 1740 1745			Recovered		Feet of	
Final Hydro Mud Pressure 2590 2647			Witnessed By Jim Willaby			
Amount-Type of Cushion -			Tester Mr. Pressnall - G. Shauers			

LOCATION C NW NW 26-32-18

FIELD

COUNTY COMANCHE

STATE KANSAS

DATE
LEASE NAME

WELL NO. 1

TEST NO. 2

CITIES SERVICE PETROLEUM COMPANY
LEASE OWNERKANSAS
OWNERS DISTRICT

COMPANY

CITIES SERVICE PETROLEUM COMPANY

5

		Time	PSI	DATE <u>3-15-61</u> TICKET NO. <u>303449</u> LEASE <u>DALE</u> Well No. <u>1</u> Test No. <u>2</u> BT No. <u>533</u> Depth <u>5112'</u> <u>12</u> Hr. Clock Temp. Corr. <u>Actual 118</u> ° F	
Initial Hydro Mud Pressure			2652		
1st	Initial Flow		28		
	Final Flow	1 min.	33		
Initial Closed In Pressure		30 min.	956		
2nd	Initial Flow		35		
	Final Flow	60 min.	43		
Final Closed In Pressure		30 min.	1738		
Final Hydro Mud Pressure			2644		

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
PO	. 000	28	000	33	000	35	000	43
P1	. 008	33	0215	140	107	39	0215	571
P2	.		043	200	214	42	043	908
P3	.		0645	266	321	43	0645	1160
P4	.		086	342	428	43	086	1362
P5	.		1075	432	.		1075	1496
P6	.		129	526	.		129	1591
P7	.		1505	625	.		1505	1649
P8	.		172	734	.		172	1689
P9	.		1935	846	.		1935	1718
P10	.		215	956	.		215	1738
	Minute Intervals		3	Minute Intervals	15	Minute Intervals	3	Minute Intervals

Remarks:

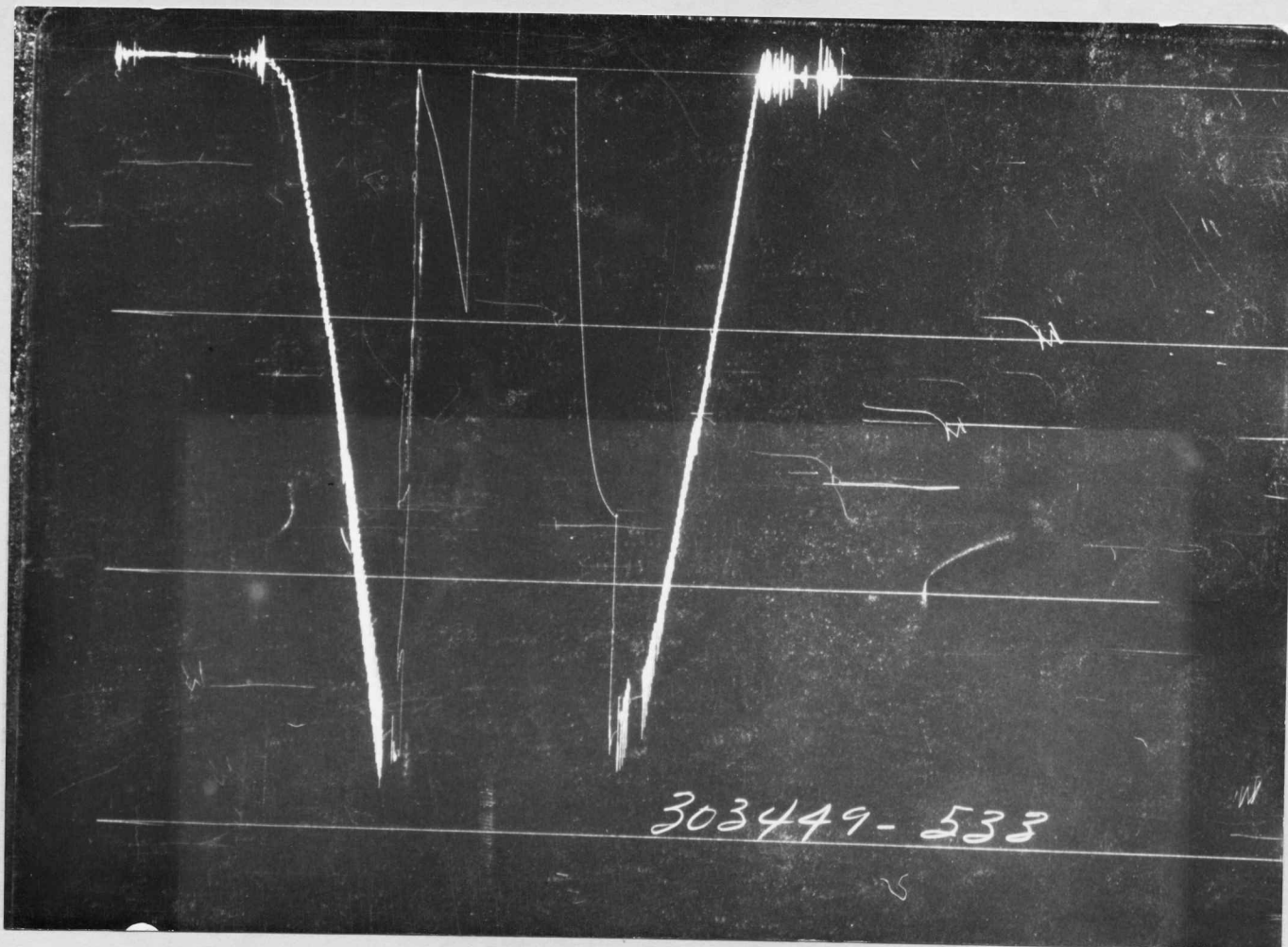
COMPANY

CITIES SERVICE PETROLEUM CO.

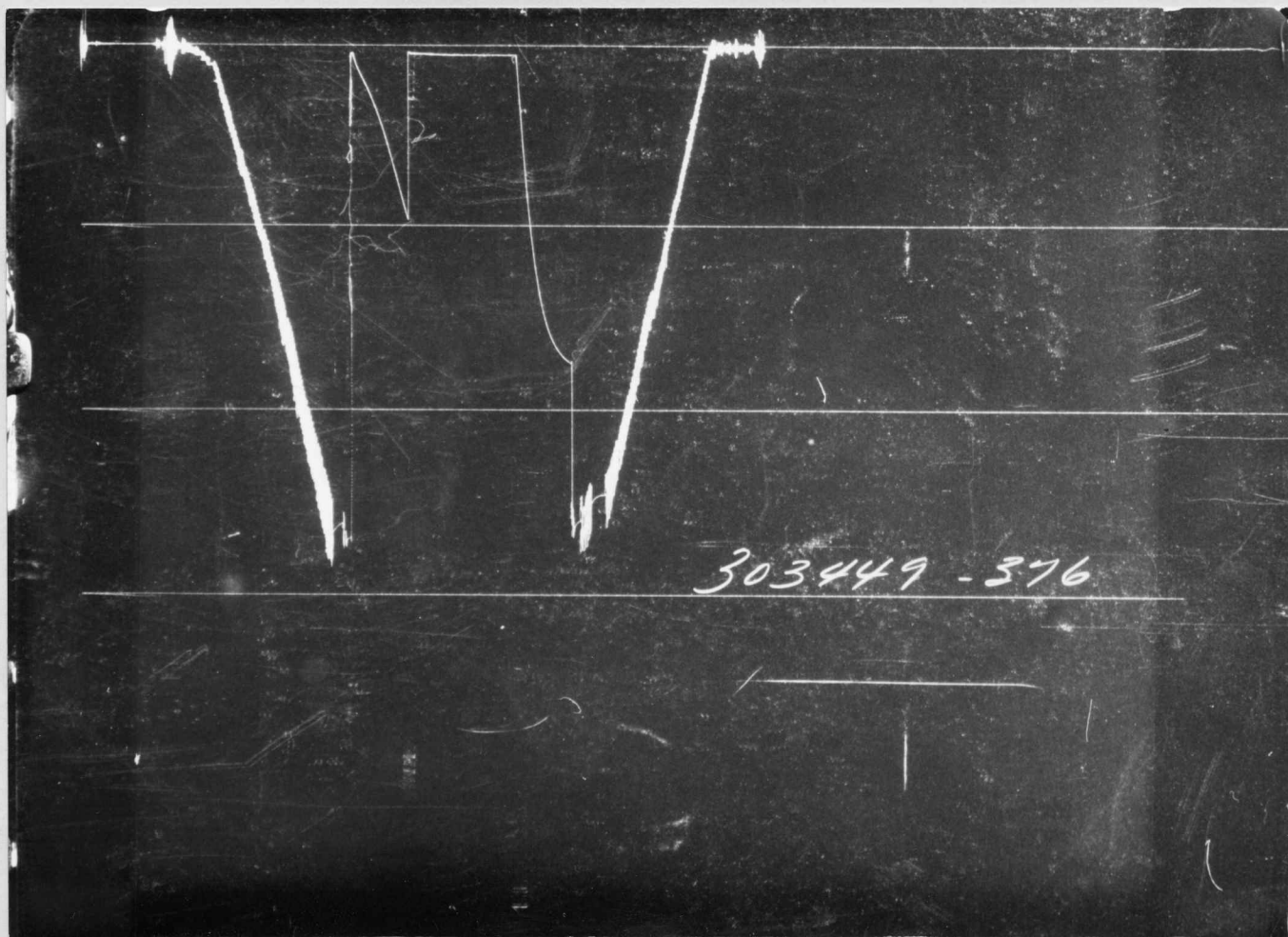
		Time	PSI						
Initial Hydro Mud Pressure			2659	DATE <u>3-15-61</u>					
1st	Initial Flow		45	TICKET NO. <u>303449</u>					
	Final Flow	1 min.	45	LEASE <u>DALE</u>					
Initial Closed In Pressure		30 min.	962						
2nd	Initial Flow		48	Well No. <u>1</u> Test No. <u>2</u>					
	Final Flow	60 min.	55	BT No. <u>376</u> Depth <u>5137'</u>					
Final Closed In Pressure		30 min.	1745	12 Hr. Clock <u>-</u>					
Final Hydro Mud Pressure			2647	Temp. Corr. Actual <u>118</u> ° F					
1st Flow Pressure			Initial CIP		2nd Flow Pressure		Final CIP		
	Time	PSI	Time	PSI	Time	PSI	Time	PSI	
PO	.000	45	.000	45	.000	48	.000	55	
P1	.008	45	.023	138	.444	55	.023	440	
P2	.		.046	199	.		.046	813	
P3	.		.069	265	.		.069	1100	
P4	.		.092	337	.		.092	1314	
P5	.		.115	423	.		.115	1469	
P6	.		.138	520	.		.138	1572	
P7	.		.161	489	.		.161	1643	
P8	.		.184	740	.		.184	1690	
P9	.		.207	854	.		.207	1723	
P10	.		.230	962	.		.230	1745	
Minute Intervals			3	Minute Intervals	Minute Intervals		3	Minute Intervals	

Remarks:

↑
PRESSURE
↓



← TIME →



Initial Closed In Time 31 Minutes			Date 3-16-61	
Tool Open 1st Flow Period 1 / 2nd 60 Minutes			Ticket No. 284756	
Final Closed In Time 31 Minutes			Halliburton District PRATT, KANSAS	
Depth Top Gauge 5125' Ft. Blanked Off NO			Kind of Job OPEN HOLE	
BT. P.R.D. No 536 12 Hr. Clock		CONTRACTOR PEEL BROTHERS INC. RIG #5		
Pressure Readings Field Office Corrected		HOLE & TOOL DATA		
Initial Hydro Mud Pressure 2702 2692		Elevation 2068' D.F. Top Packer Depth -		
Initial Closed in Pres. 1795 1798		Total Depth 5168' Bottom Packer Depth 5142'		
Initial Flow Pres. 118 171-136		Casing or Hole Size 7 7/8" Size & Type Wall Packer 6 3/4" ESWP		
Final Flow Pres. 165 153-162		Liner or Rathole Size 7 7/8" Size Bottom Choke 5/8"		
Final Closed in Pres. 1768 1770		Casing Perforations Top Bottom Size Surface Choke 1"		
Final Hydro Mud Pressure 2663 2660		Interval Tested 5142' - 5168' ID & Length Air Chamber DUAL C.I.P.		
Depth Center Gauge Ft. Blanked Off		Formation Tested MISSISSIPPI ID & Length Drill Collars -		
BT. P.R.D. No Hr. Clock		Est. Gauge Depth Temp. ACT. 112 F° Size Drill Pipe 4 1/2" ACME		
Pressure Readings Field Office Corrected		MUD DATA Weight 9.8 Viscosity 58		
Initial Hydro Mud Pressure		All depths measured from KELLY BUSHING No...Folders Reproduced 5		
Initial Closed in Pres.		REMARKS: Tool opened @ 1:13 PM for a 1 minute		
Initial Flow Pres.		first flow. Closed tool @ 1:14 PM. Rotated		
Final Flow Pres.		tool for a 31 minute initial closed in press-		
Final Closed in Pres.		ure. Tool re-opened @ 1:45 PM with a strong		
Final Hydro Mud Pressure		blow. Gas to the surface in 2 minutes, 15		
Depth Bottom Gauge 5162' Ft. Blanked Off YES		minute gauge 1,250 MCF, 30 minutes gauge 1,400		
BT. P.R.D. No 376 12 Hr. Clock		MCF, 45 minutes gauge 1,425 MCF, 60 minutes		
Pressure Readings Field Office Corrected		1,450 MCF, Closed tool @ 2:45 PM. Took a 31		
Initial Hydro Mud Pressure 2709 2709		minute final closed in pressure. Off bottom @		
Initial Closed in Pres. 1825 1817		3:16 PM.		
Initial Flow Pres. 150 216-174		Recovered 15' Feet of drilling mud		
Final Flow Pres. 190 189-189		Recovered Feet of		
Final Closed in Pres. 1798 1790		Recovered Feet of		
Final Hydro Mud Pressure 2682 2685		Witnessed By S.L. WILLAB		
Amount-Type of Cushion NONE		Tester M.W. UNRUH		

DATE

LEASE NAME

C-MW-NW

LOCATION 26-32-18

WELL NO.

1

TEST NO.

3

CITIES SERVICE PETROLEUM COMPANY

LEASE OWNER

COUNTY

COMANCHE

STATE

KANSAS

OWNERS DISTRICT

26-32-18W

COMPANY

CITIES SERVICE PETROLEUM COMPANY

		Time	PSI				
Initial Hydro Mud Pressure			2692	DATE 3-16-61			
1st	Initial Flow		171	TICKET NO. 284756			
	Final Flow	1 Min.	153	LEASE DALE			
Initial Closed In Pressure		31 Min.	1798				
2nd	Initial Flow		136	Well No. 1 Test No. 3			
	Final Flow	60 Min.	162	BT No. 536 Depth 5125'			
Final Closed In Pressure		31 Min.	1770	12 Hr. Clock -			
Final Hydro Mud Pressure			2660	Temp. Corr. ACT. 112 ° F			

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
PO	.000	171	.000	153	.000	136*	.000	162
P1	.002	153	.0216	1785	.1025	153	.0219	1684
P2	.		.0432	1794	.2050	158	.0438	1726
P3	.		.0648	1796	.3075	161	.0657	1742
P4	.		.0864	1797	.410	162	.0876	1750
P5	.		.1080	1797	.		.1095	1756
P6	.		.1296	1797	.		.1314	1761
P7	.		.1512	1797	.		.1533	1763
P8	.		.1728	1797	.		.1752	1766
P9	.		.1944	1797	.		.1971	1769
P10	.		.216	1798	.		.219	1770
	Minute Intervals		3.1 Minute Intervals		15 Minute Intervals		3.1 Minute Intervals	

Remarks:

* QUESTIONABLE.

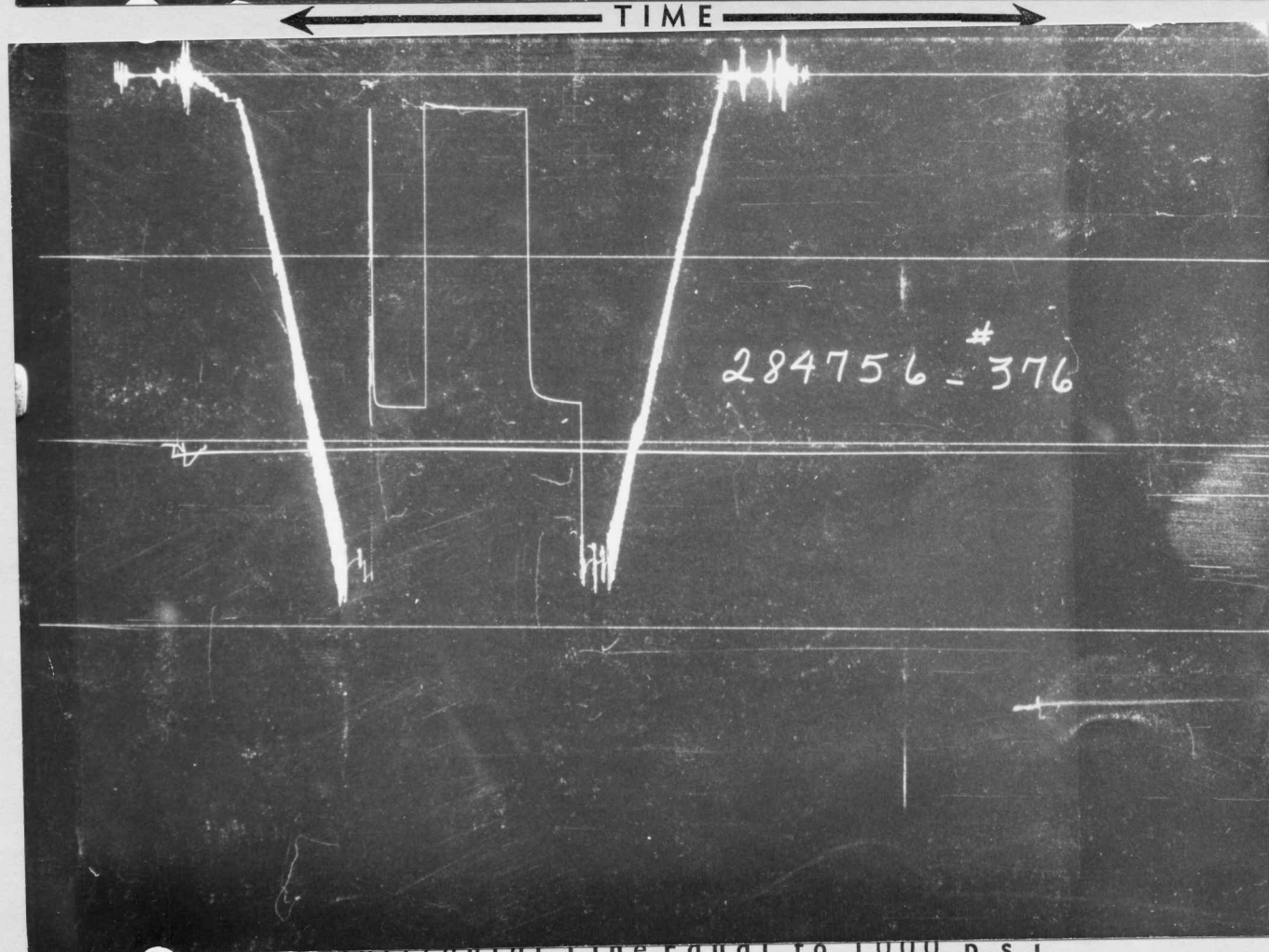
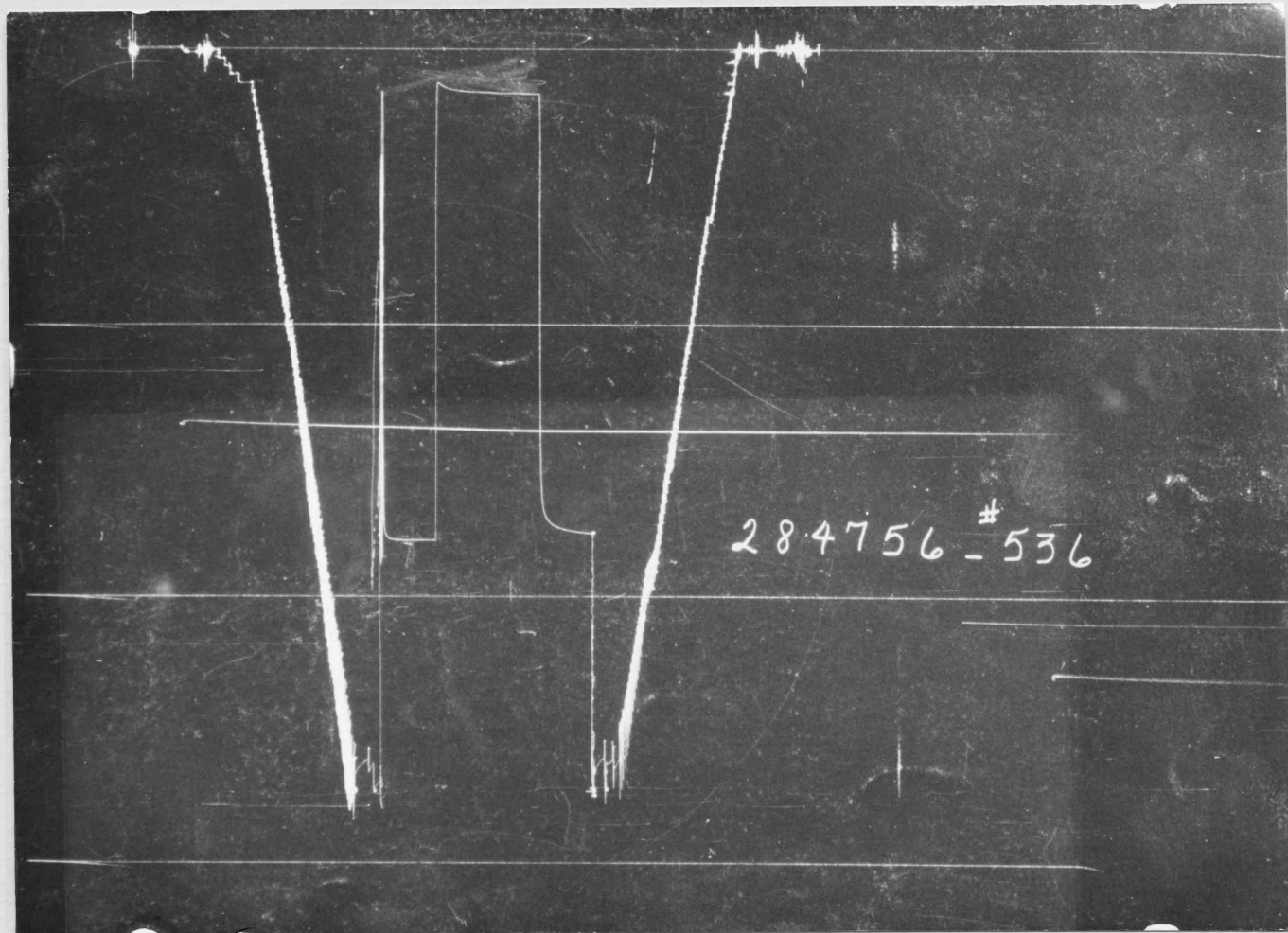
		Time	PSI				
Initial Hydro Mud Pressure			2709	DATE 3-16-61			
1st	Initial Flow		216	TICKET NO. 284756			
	Final Flow	1 Min.	189	LEASE DALE			
Initial Closed In Pressure		31 Min.	1817				
2nd	Initial Flow		174	Well No. 1 Test No. 3			
	Final Flow	60 Min.	189	BT No. 376 Depth 5162'			
Final Closed In Pressure		31 Min.	1790	12 Hr. Clock -			
Final Hydro Mud Pressure			2685	Temp. Corr. ACT. 112 ° F			

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
PO	.000	216	.000	189	.000	174*	.000	189
P1	.003	189	.0227	1792	.1043	181	.0223	1685
P2	.		.0454	1810	.2066	185	.0446	1743
P3	.		.0681	1813	.3129	186	.0669	1759
P4	.		.0908	1815	.417	189	.0892	1769
P5	.		.1135	1816	.		.1115	1774
P6	.		.1362	1816	.		.1338	1780
P7	.		.1589	1817	.		.1561	1782
P8	.		.1816	1817	.		.1784	1786
P9	.		.2043	1817	.		.2007	1788
P10	.		.227	1817	.		.223	1790
	Minute Intervals		3.1	Minute Intervals	15	Minute Intervals	3.1	Minute Intervals

Remarks:

* QUESTIONABLE.

↑
PRESSURE
↓



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

DATE

LEASE NAME

WELL NO.

TEST NO.

CITIES SERVICE PETROLEUM COMPANY

LEASE OWNER

OWNERS DISTRICT

LOCATION 26-32-18

FIELD

COUNTY COMANCHE

STATE KANSAS

Date 3-17-61

Ticket No. 284757

Halliburton District PRATT, KANSAS

Kind of Job OPEN HOLE



CONTRACTOR PEEL BROTHERS INC. RIG # 5

HOLE & TOOL DATA

Elevation 2068' D.F. Top Packer Depth -

Total Depth 5188' Bottom Packer Depth 5168'

Casing or Hole Size 7 7/8" Size & Type Wall Packer 6 3/4" ESWP

Liner or Rathole Size 7 7/8" Size Bottom Choke 5/8"

Casing Perforations || Top Bottom Size Surface Choke 1"

Interval Tested 5168' - 5188' ID & Length Air Chamber DUAL C.I.P.

Formation Tested MISSISSIPPI ID & Length Drill Collars 2 1/4" x 178'

Est. Gauge Depth Temp. ACT. 112 F° Size Drill Pipe 4 1/2" ACME

MUD DATA Weight 9.7 Viscosity 53

All depths measured from KELLY BUSHING No...Folders Reproduced 5

REMARKS: Tool opened @ 9:48 AM for a 1 1/2 minute first flow. Closed tool @ 9:49 1/2 AM. Rotated tool for a 30 minute initial closed in pressure. Tool re-opened @ 10:19 1/2 AM with a weak blow slowly increased to good throughout the test. Closed @ 11:20 AM. Took a 31 minute final closed in pressure. Off bottom @ 11:51 AM.

Recovered 30' Feet of muddy salt water

Recovered 30' Feet of drilling mud

Recovered Feet of

Recovered Feet of

Witnessed By D.S. AUSTIN

Tester M.W. UNRUH

Initial Closed In Time	30	Minutes
Tool Open 1st Flow Period	1 1/2	Minutes
2nd Flow Period	60 1/2	Minutes
Final Closed In Time	31	Minutes
Depth Top Gauge	5151'	Ft.
Blanked Off	NO	
BT. P.R.D. No	376	12 Hr. Clock
Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure	2692	2707
Initial Closed in Pres.	1462	1425
Initial Flow Pres.	27	34-37
Final Flow Pres.	42	27-45
Final Closed in Pres.	667	666
Final Hydro Mud Pressure	2678	2661
Depth Center Gauge		Ft.
Blanked Off		
BT. P.R.D. No		Hr. Clock
Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure		
Initial Closed in Pres.		
Initial Flow Pres.		
Final Flow Pres.		
Final Closed in Pres.		
Final Hydro Mud Pressure		
Depth Bottom Gauge	5184'	Ft.
Blanked Off	YES	
BT. P.R.D. No	536	12 Hr. Clock
Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure	2711	2700
Initial Closed in Pres.	1443	1430
Initial Flow Pres.	37	42-49
Final Flow Pres.	56	36-51
Final Closed in Pres.	684	674
Final Hydro Mud Pressure	2692	2668
Amount-Type of Cushion	NONE	

	Time	PSI		
Initial Hydro Mud Pressure		2707	DATE	3-17-61
1st Initial Flow		34	TICKET NO.	284757
	1½ Min.	27	LEASE	DALE
Initial Closed In Pressure	30 Min.	1425		
2nd Initial Flow		37	Well No.	1 Test No. 4
	60½ Min.	45	BT No.	376 Depth 5151'
Final Closed In Pressure	31 Min.	666	12 Hr. Clock	-
Final Hydro Mud Pressure		2661	Temp. Corr.	ACT. 112 ° F

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
PO	.000	34	.000	27	.000	37	.000	45
P1	.011	27	.0217	90	.420	45	.0217	73
P2	.		.0434	171	.		.0434	112
P3	.		.0651	289	.		.0651	158
P4	.		.0868	440	.		.0868	208
P5	.		.1085	643	.		.1085	271
P6	.		.1302	867	.		.1302	334
P7	.		.1519	1068	.		.1519	416
P8	.		.1736	1229	.		.1736	495
P9	.		.1953	1342	.		.1953	577
P10	.		.217	1425	.		.217	666
	Minute Intervals		3	Minute Intervals	Minute Intervals		3.1	Minute Intervals

Remarks:

COMPANY

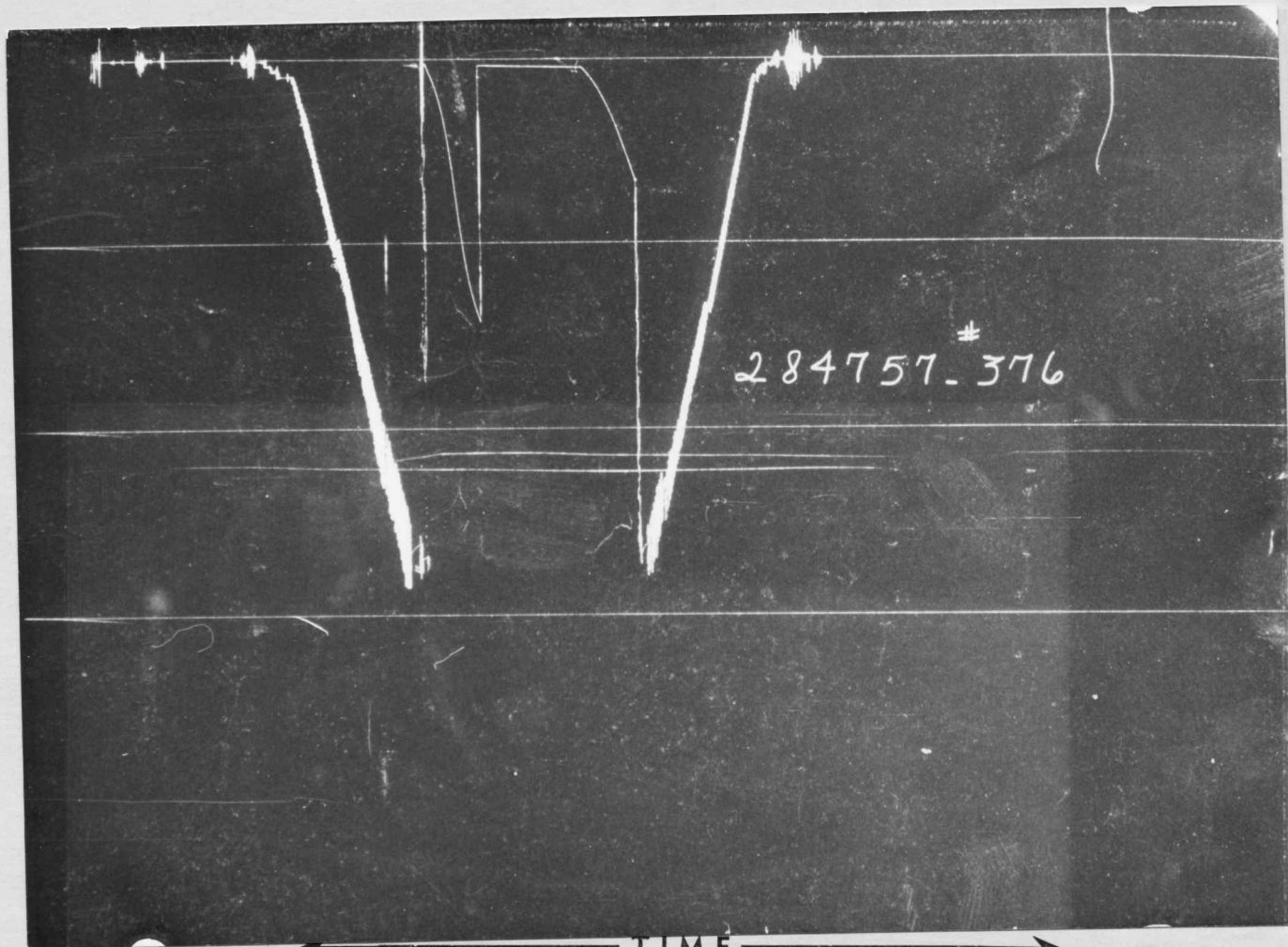
CITIES SERVICE PETROLEUM COMPANY

		Time	PSI		
Initial Hydro Mud Pressure			2700	DATE	3-17-61
1st	Initial Flow		42	TICKET NO.	284757
	Final Flow	1½ Min.	36	LEASE	DALE
Initial Closed In Pressure		30 Min.	1430		
2nd	Initial Flow		49	Well No.	1
	Final Flow	60½ Min.	51	Test No.	4
Final Closed In Pressure		31 Min.	674	BT No.	536
Final Hydro Mud Pressure			2668	Depth	5184'
				12 Hr. Clock	-
				Temp. Corr.	ACT. 112 ° F

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
PO	. 000	42	. 000	36	. 000	49	. 000	51
P1	. 007	36	. 0209	105	. 413	51	. 0217	78
P2	.		. 0418	186	.		. 0434	115
P3	.		. 0627	291	.		. 0651	158
P4	.		. 0836	456	.		. 0868	207
P5	.		. 1045	650	.		. 1085	272
P6	.		. 1254	880	.		. 1302	339
P7	.		. 1463	1081	.		. 1519	422
P8	.		. 1672	1229	.		. 1736	503
P9	.		. 1881	1346	.		. 1953	590
P10	.		. 209	1430	.		. 217	674
	Minute Intervals		3 Minute Intervals		Minute Intervals		3.1 Minute Intervals	

Remarks:

↑
PRESSURE
↓



2000 horizontal line equal to 1000 p.s.i.

DATE

LEASE NAME

WELL NO.

TEST NO.

CITIES SERVICE PETROLEUM COMPANY

LEASE OWNER

OWNERS DISTRICT

LOCATION

C - NW - NW
26 - 32 - 18

FIELD

COUNTY

COMANCHE

STATE

KANSAS

Initial Closed In Time 30 Minutes			Date 3-26-61	
Tool Open 1st 1 / 2nd 60 Minutes			Ticket No. 303455	
Final Closed In Time 30 Minutes			Halliburton District PRATT, KANSAS	
Depth Top Gauge 5618' Ft. Blanked Off NO			Kind of Job OPEN HOLE	
BT. P.R.D. No 376 12 Hr. Clock		CONTRACTOR PERL BROTHERS, INC.		
Pressure Readings Field Office Corrected		HOLE & TOOL DATA		
Initial Hydro Mud Pressure 2855 2956		Elevation 2068' D.F. Top Packer Depth -		
Initial Closed in Pres. 2000 2000		Total Depth 5643' Bottom Packer Depth 5623'		
1ST FLOW UNABLE TO READ Initial Flow Pres. 270 358		Casing or Hole Size 7 7/8" Size & Type Wall Packer 6 3/4" ESWP		
Final Flow Pres. 70 66		Liner or Rathole Size - Size Bottom Choke 5/8"		
Final Closed in Pres. 1780 1780		Casing Perforations Top Bottom Size Surface Choke 1"		
Final Hydro Mud Pressure 2855 2899		Interval Tested 5623' - 5643' ID & Length Air Chamber DUAL C.I.P.		
Depth Center Gauge Ft. Blanked Off		Formation Tested VIOLA ID & Length Drill Collars 215' x 2 1/4"		
BT. P.R.D. No Hr. Clock		Est. Gauge Depth Temp. CALC. 130 F° Size Drill Pipe 4 1/2" ACME		
Pressure Readings Field Office Corrected		MUD DATA Weight 9.6 Viscosity 56		
Initial Hydro Mud Pressure		All depths measured from KELLY BUSHING No. Folders Reproduced 5		
Initial Closed in Pres.		REMARKS: Tool on bottom @ 6:19. Tool opened		
Initial Flow Pres.		@ 6:21 with a strong blow for a 1 minute first		
Final Flow Pres.		flow. Closed tool @ 6:22. Rotated tool for		
Final Closed in Pres.		a 30 minute initial closed in pressure. Tool @ 6:52		
Final Hydro Mud Pressure		reopened with gas to the surface in 1 minute,		
Depth Bottom Gauge 5642' Ft. Blanked Off YES		734,000 cu. ft. Gas rates were: 5 minutes;		
BT. P.R.D. No 2117 24 Hr. Clock		1,630,000, 10 minutes; 1,020,000, 20 minutes;		
Pressure Readings Field Office Corrected		600,000, 30 minutes; 519,000, 60 minutes;		
Initial Hydro Mud Pressure		499,000. Tool closed @ 7:52. Took a 30 minute final closed in pressure. Tool off bottom @ 8:22.		
Initial Closed in Pres.		Recovered 70' Feet of mud - gas cut		
Initial Flow Pres.		Recovered Feet of		
Final Flow Pres.		Recovered Feet of		
Final Closed in Pres.		Recovered Feet of		
Final Hydro Mud Pressure		Witnessed By J. WILLABY		
Amount-Type of Cushion NONE		Tester M.A. PRESSNALL		

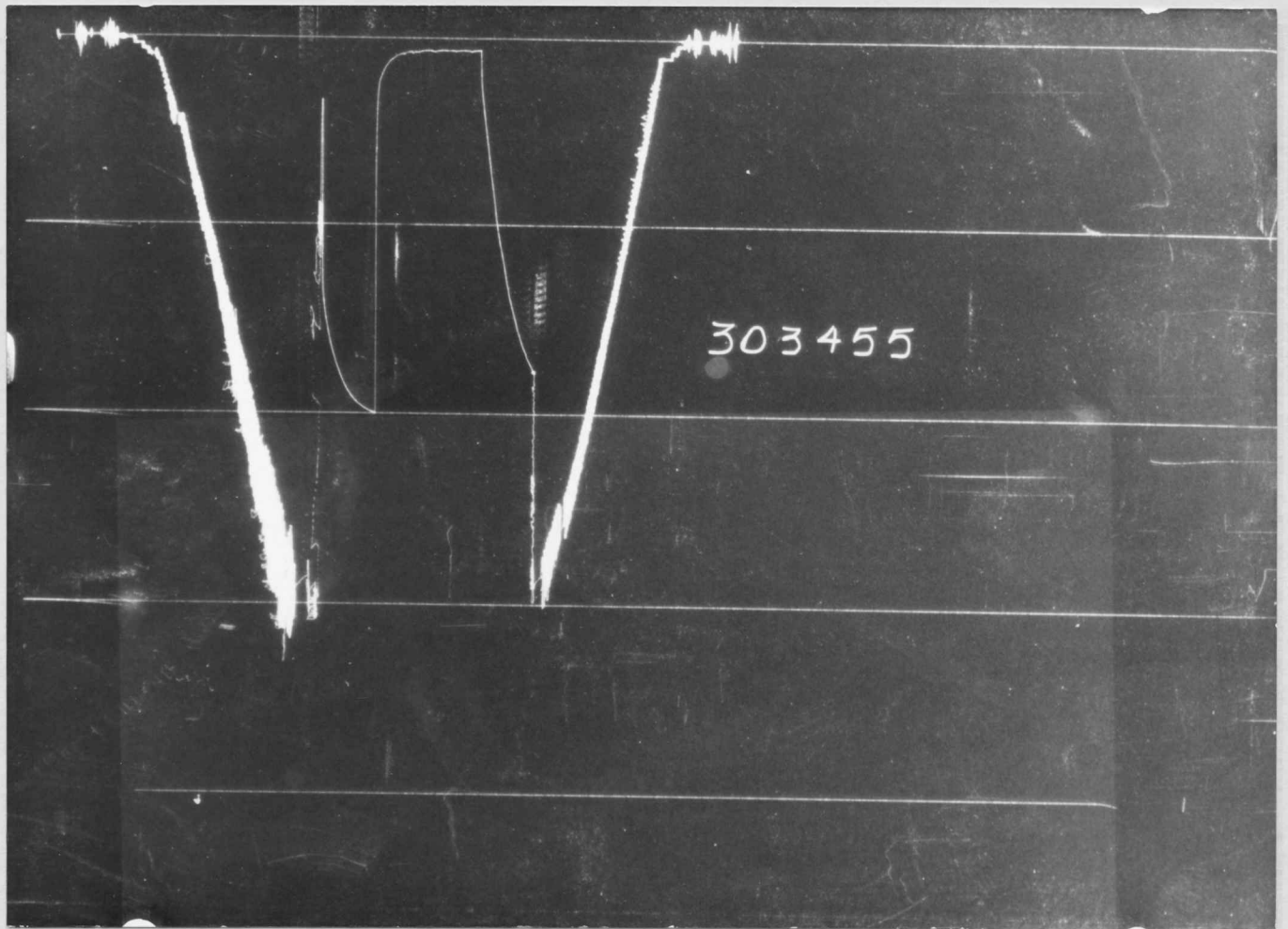
COMPANY

CITIES SERVICE PETROLEUM COMPANY

		Time	PSI		
Initial Hydro Mud Pressure			2956	DATE 3-26-61	
1st	Initial Flow		UNABLE	TICKET NO. 303455	
	Final Flow	1 Min.	TO READ	LEASE DALE	
Initial Closed In Pressure		30 Min.	2000		
2nd	Initial Flow		358	Well No. 1 Test No. 5	
	Final Flow	60 Min.	66	BT No. 376 Depth 5618'	
Final Closed In Pressure		30 Min.	1780	12 Hr. Clock -	
Final Hydro Mud Pressure			2899	Temp. Corr. CALC. 130 ° F	

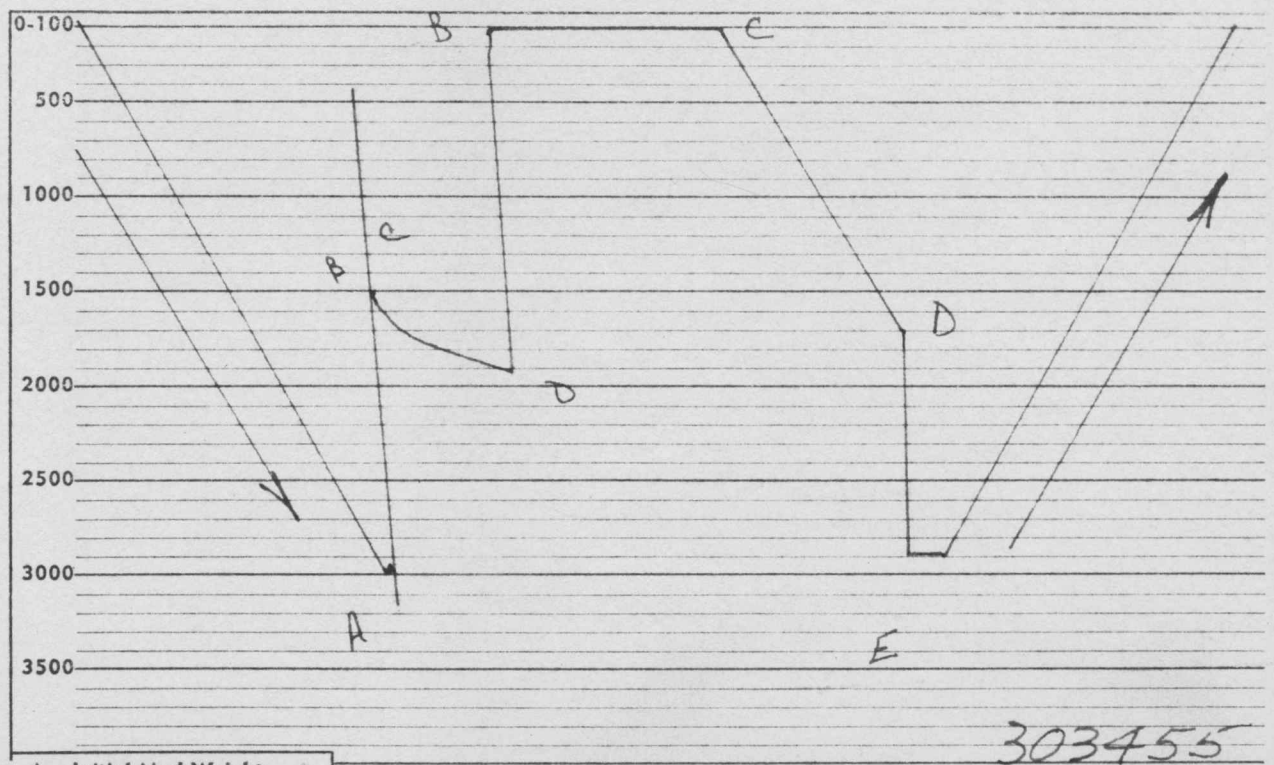
	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
PO	.		.000	337	.000	358*	.000	66
P1	.		.0217	1523	.1035	85	.0221	488
P2	.		.0434	1660	.2070	67	.0442	736
P3	.		.0651	1755	.3105	70	.0663	976
P4	.		.0868	1825	.414	66	.0884	1150
P5	.		.1085	1884	.		.1105	1316
P6	.		.1302	1922	.		.1326	1447
P7	.		.1519	1950	.		.1547	1562
P8	.		.1736	1972	.		.1768	1651
P9	.		.1953	1988	.		.1989	1724
P10	.		.217	2000	.		.221	1780
	Minute Intervals		3	Minute Intervals	15	Minute Intervals	3	Minute Intervals

Remarks: * QUESTIONABLE.



↑
PRESSURE
↓

← TIME →



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

HALLIBURTON FORM 1383—LITTLE'S 61742 5M 10/60

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

Initial Closed In Time 30 Minutes			Date 3-27-61	
Tool Open Flow Period 1st 1 2nd 60 Minutes			Ticket No. 303456	
Final Closed In Time 30 Minutes			Halliburton District Pratt	
Depth Top Gauge 5638 Ft. Blanked Off No			Kind of Job Open Hole	
BT. P.R.D. No 376 12 Hr. Clock		CONTRACTOR PEEL BROTHERS INC. RIG NO. 5		
Pressure Readings Field Office Corrected		HOLE & TOOL DATA		
Initial Hydro Mud Pressure 2870 2875		Elevation 2068' DF Top Packer Depth 5643'		
Initial Closed in Pres. 435 418		Total Depth 5663' Bottom Packer Depth -		
Initial Flow Pres. 40 19-27		Casing or Hole Size 7 7/8" Size & Type Wall Packer 6 3/4" ESWP		
Final Flow Pres. 40 19-32		Liner or Rathole Size - Size Bottom Choke 5/8"		
Final Closed in Pres. 110 93		Casing Perforations Top Bottom Size Surface Choke 1"		
Final Hydro Mud Pressure 2855 2856		Interval Tested 5643-5663' ID & Length Air Chamber -		
Depth Center Gauge 5660 Ft. Blanked Off Yes		Formation Tested Viola ID & Length Drill Collars 2 1/2" x 215'		
BT. P.R.D. No 538 12 Hr. Clock		Est. Gauge Depth Temp. C-130 F° Size Drill Pipe 4 1/2" Acme		
Pressure Readings Field Office Corrected		MUD DATA Weight 9.6 Viscosity 55		
Initial Hydro Mud Pressure 2900 2893		All depths measured from Kelly Bushing No...Folders Reproduced 5		
Initial Closed in Pres. 435 419		REMARKS: Tool on bottom at 5:38. Tool		
Initial Flow Pres. 35 25-40		opened at 5:40 for a 1 minute first flow with		
Final Flow Pres. 45 24-42		a very weak blow. Closed tool at 5:41 for a		
Final Closed in Pres. 100 101		30 minute initial closed in pressure. Tool		
Final Hydro Mud Pressure 2885 2866		re-opened at 6:11 with a very weak blow -		
Depth Bottom Gauge Ft. Blanked Off		died in 10 minutes. Closed tool at 7:11 for a		
BT. P.R.D. No Hr. Clock		30 minute final closed in pressure. Off		
Pressure Readings Field Office Corrected		bottom at 7:41.		
Initial Hydro Mud Pressure				
Initial Closed in Pres.		Recovered 20 Feet of Mud		
Initial Flow Pres.		Recovered Feet of		
Final Flow Pres.		Recovered Feet of		
Final Closed in Pres.		Recovered Feet of		
Final Hydro Mud Pressure		Witnessed By -		
Amount-Type of Cushion -		Tester M. A. Pressnall & G. L. Shavers		

LOCATION 26-32-18

FIELD

COUNTY COMANCHE

STATE KANSAS

DATE

LEASE NAME

WELL NO.

TEST NO.

LEASE OWNER

OWNERS DISTRICT

CITIES SERVICE PETROLEUM COMPANY

26-32-18 NW

COMPANY

CITIES SERVICE PETROLEUM COMPANY

		Time	PSI					
Initial Hydro Mud Pressure			2875		DATE 3-27-61			
1st	Initial Flow		19		TICKET NO. 303456			
	Final Flow	1 Min.	19		LEASE DALE			
Initial Closed In Pressure		30 Min.	418					
2nd	Initial Flow		27		Well No. 1 Test No. 6			
	Final Flow	60 Min.	32		BT No. 376 Depth 5638'			
Final Closed In Pressure		30 Min.	93		12 Hr. Clock -			
Final Hydro Mud Pressure			2856		Temp. Corr. CALC. 130 ° F			

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
PO	.000	19	.000	19	.000	27	.000	32
P1	.017	19	.0211	36	.1065	26	.021	34
P2	.		.0422	55	.213	29	.042	38
P3	.		.0633	77	.3195	30	.063	44
P4	.		.0844	101	.426	32	.084	48
P5	.		.1055	132	.		.105	55
P6	.		.1266	167	.		.126	62
P7	.		.1477	215	.		.147	68
P8	.		.1688	274	.		.168	75
P9	.		.1899	342	.		.189	85
P10	.		.211	418	.		.210	93
	Minute Intervals		3	Minute Intervals	15	Minute Intervals	3	Minute Intervals

Remarks:

COMPANY

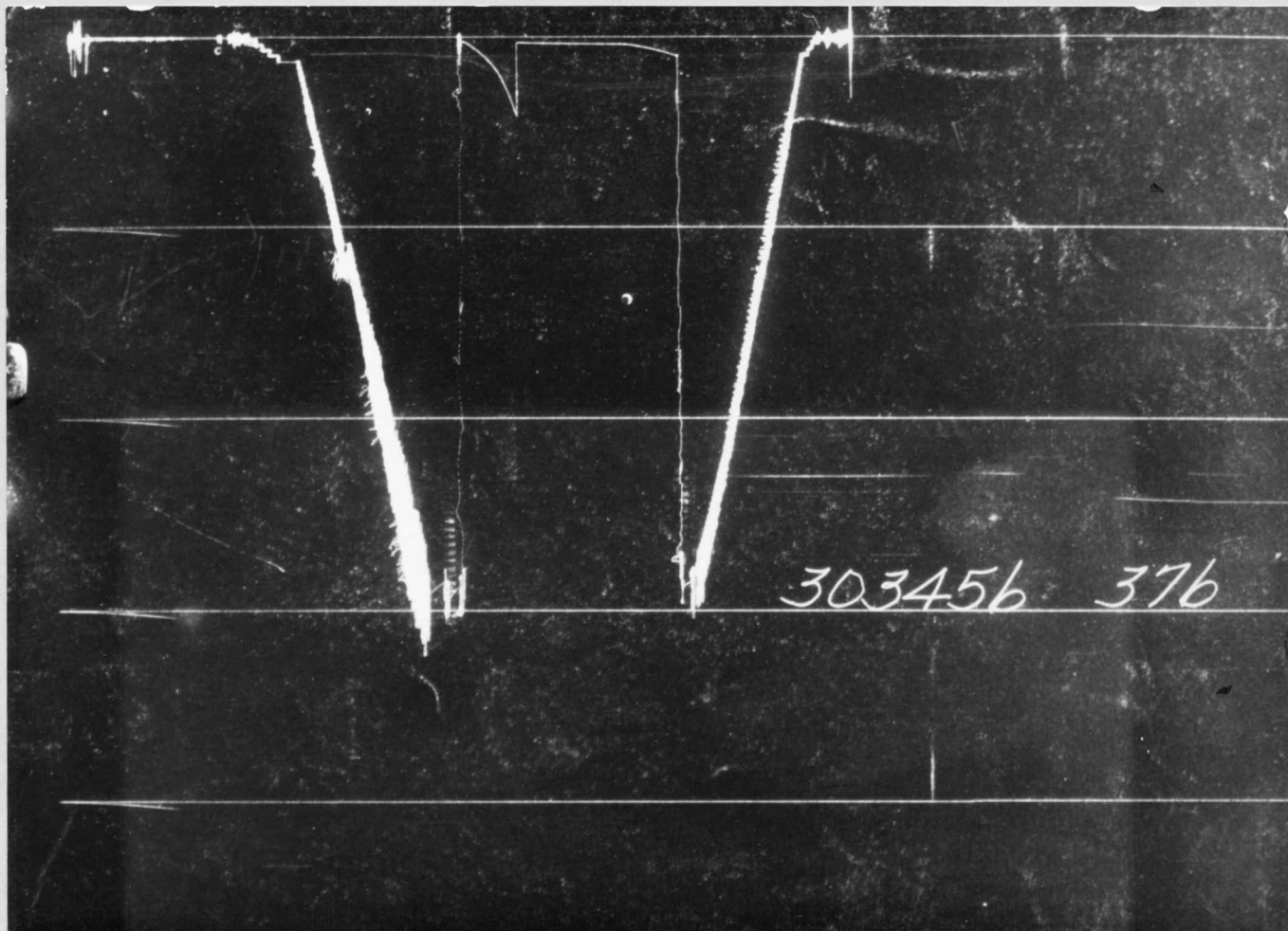
CITIES SERVICE PETROLEUM COMPANY

Initial Hydro Mud Pressure		Time	PSI	DATE 3-27-61				
1st	Initial Flow		25	TICKET NO. 303456				
	Final Flow	1 Min.	24	LEASE DALE				
Initial Closed In Pressure		30 Min.	419	Well No. 1 Test No. 6				
2nd	Initial Flow		40	BT No. 538 Depth 5660'				
	Final Flow	60 Min.	42	12 Hr. Clock -				
Final Closed In Pressure		30 Min.	101	Temp. Corr. CALC. 130 ° F				
Final Hydro Mud Pressure			2866					

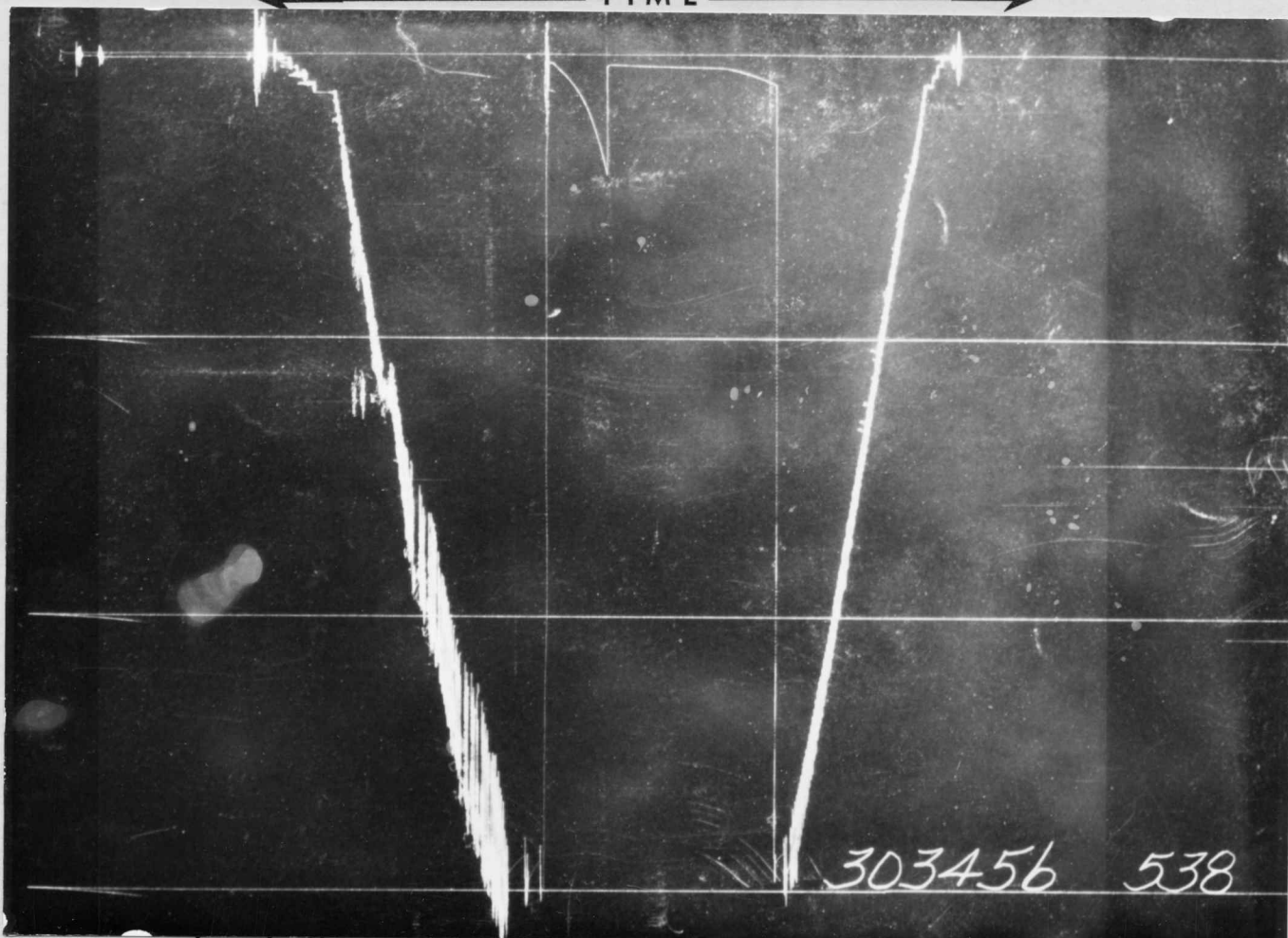
	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
PO	.000	25	.000	24	.000	40	.000	42
P1	.018	24	.022	42	.1125	35	.0219	44
P2	.		.044	61	.225	37	.0438	47
P3	.		.066	81	.3375	39	.0657	53
P4	.		.088	105	.450	42	.0876	57
P5	.		.110	133	.		.1095	64
P6	.		.132	171	.		.1314	69
P7	.		.154	214	.		.1533	76
P8	.		.176	274	.		.1752	84
P9	.		.198	340	.		.1971	93
P10	.		.220	419	.		.219	101
	Minute Intervals		3	Minute Intervals	15	Minute Intervals	3	Minute Intervals

Remarks:

↑
PRESSURE
↓



← TIME →



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