

ELSEA B
 Lease Name
 14 32 14 SE SW NW
 Well No. 2
 Test No. 1
 4127 - 4145'
 Tested Interval
 BARBER
 BOWERS DRILLING COMPANY
 Lease Owner/Company Name

Legal Location
 Sec. - Twp. - Rng.
 14 32 14 SE SW NW
 Field Area
 Mea. From Tester Valve
 County
 BARBER
 State
 KANSAS

FLUID SAMPLE DATA		Date	10-14-73	Ticket Number	600766
Sampler Pressure	P.S.I.G. at Surface	Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND
Recovery: Cu. Ft. Gas		Tester	L. J. CLINE	Witness	R E MC CANN
cc. Oil		Drilling Contractor	HELLAR DRILLING COMPANY	SM	S
cc. Water		EQUIPMENT & HOLE DATA			
cc. Mud		Formation Tested	Lansing - Kansas City		
Tot. Liquid cc.		Elevation	1706'	Kelly bushing	Ft.
Gravity	° API @ _____ °F.	Net Productive Interval	18'		Ft.
Gas/Oil Ratio	cu. ft./bbl.	All Depths Measured From	Kelly bushing		
		Total Depth	4145'		Ft.
		Main Hole/Casing Size	7 7/8"		
		Drill Collar Length	775'	I.D.	2.764" WP
		Drill Pipe Length	3370'	I.D.	3.826"
		Packer Depth(s)	4122-4127' Ft.		
		Depth Tester Valve	4110' Ft.		

Recovery Water	_____ @ _____ °F.	_____ ppm
Recovery Mud	_____ @ _____ °F.	
Recovery Mud Filtrate	_____ @ _____ °F.	_____ ppm
Mud Pit Sample	_____ @ _____ °F.	
Mud Pit Sample Filtrate	_____ @ _____ °F.	_____ ppm
Mud Weight	_____ vis	_____ cp

Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	Bottom Choke
			Ft.	1"	3/4"

Recovered	40	Feet of slightly oil & gas cut mud
Recovered	120	Feet of muddy water
Recovered		Feet of
Recovered		Feet of
Recovered		Feet of

Remarks Tool opened for 27 minute first flow period with good strong blow. Closed tool for 33 minute first closed in pressure period. Tool reopened for second flow with a good strong blow throughout test. Closed tool for 31 minute second closed in pressure period.

TEMPERATURE	Gauge No. 1839	Gauge No. 1838	Gauge No.	TIME		
	Depth: 4112 Ft.	Depth: 4141 Ft.	Depth: Ft.			
Est. 112 °F.	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 0741 A.M. P.M.		
	Blanked Off no	Blanked Off yes	Blanked Off	Tool Closed 0941 A.M. P.M.		
Actual °F.	Pressures		Pressures		Reported Minutes	Computed Minutes
	Field	Office	Field	Office		
Initial Hydrostatic		2230	2274	2238		
First Period	Flow Initial	26	37	34		
	Flow Final	53	66	60	30	27
	Closed in	1376	1367	1379	30	33
Second Period	Flow Initial	69	75	76		
	Flow Final	88	94	95	30	29
	Closed in	1353	1348	1358	30	31
Third Period	Flow Initial					
	Flow Final					
Final Hydrostatic		2227	2255	2235		

Gauge No.		1839		Depth		4112'		Clock No.		4309		12 hour		Ticket No.		600766	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.0000	26		.0000	53	.0000	69	.0000		.0000	88						
1	.0480*	33		.0195	219	.0273**	68	.0265**			418						
2	.0823	39		.0390	544	.0614	72	.0463			709						
3	.1166	43		.0585	865	.0955	77	.0661			949						
4	.1509	48		.0780	1070	.1296	80	.0859			1103						
5	.1850	53		.0975	1191	.1637	84	.1057			1200						
6				.1170	1257	.1980	88	.1255			1257						
7				.1365	1300			.1453			1294						
8				.1560	1328			.1651			1319						
9				.1755	1349			.1849			1337						
10				.1950	1363			.2050			1353						
11				.2150	1376												
12																	
13																	
14																	
15																	

Gauge No.		1838		Depth		4141'		Clock No.		2488		12 hour		Minutes			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.		
0	.0000	34		.0000	60	.0000	76	.0000		.0000	95						
1	.0472*	40		.0195	204	.0269**	73	.0266**			418						
2	.0809	45		.0390	494	.0605	78	.0465			723						
3	.1146	50		.0585	836	.0941	82	.0664			957						
4	.1483	55		.0780	1057	.1277	86	.0863			1108						
5	.1820	60		.0975	1186	.1613	91	.1062			1204						
6				.1170	1259	.1950	95	.1261			1262						
7				.1365	1303			.1460			1299						
8				.1560	1331			.1659			1324						
9				.1755	1351			.1858			1344						
10				.1950	1367			.2060			1358						
11				.2150	1379												
12																	
13																	
14																	
15																	

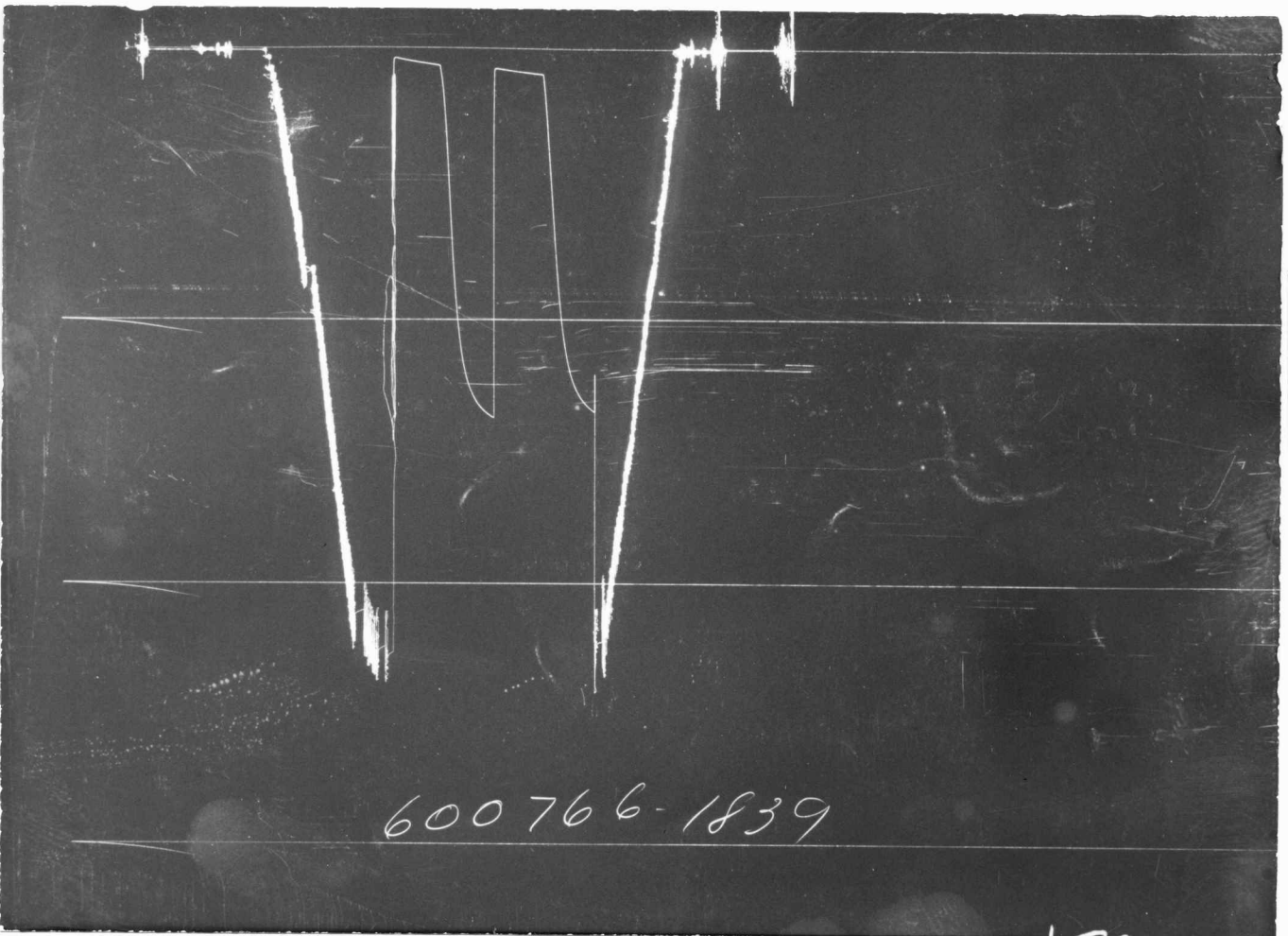
Reading Interval 5 3 3 5 3
 REMARKS: *First interval is equal to 7 minutes. **= 4 minutes.

EQUIPMENT DATA

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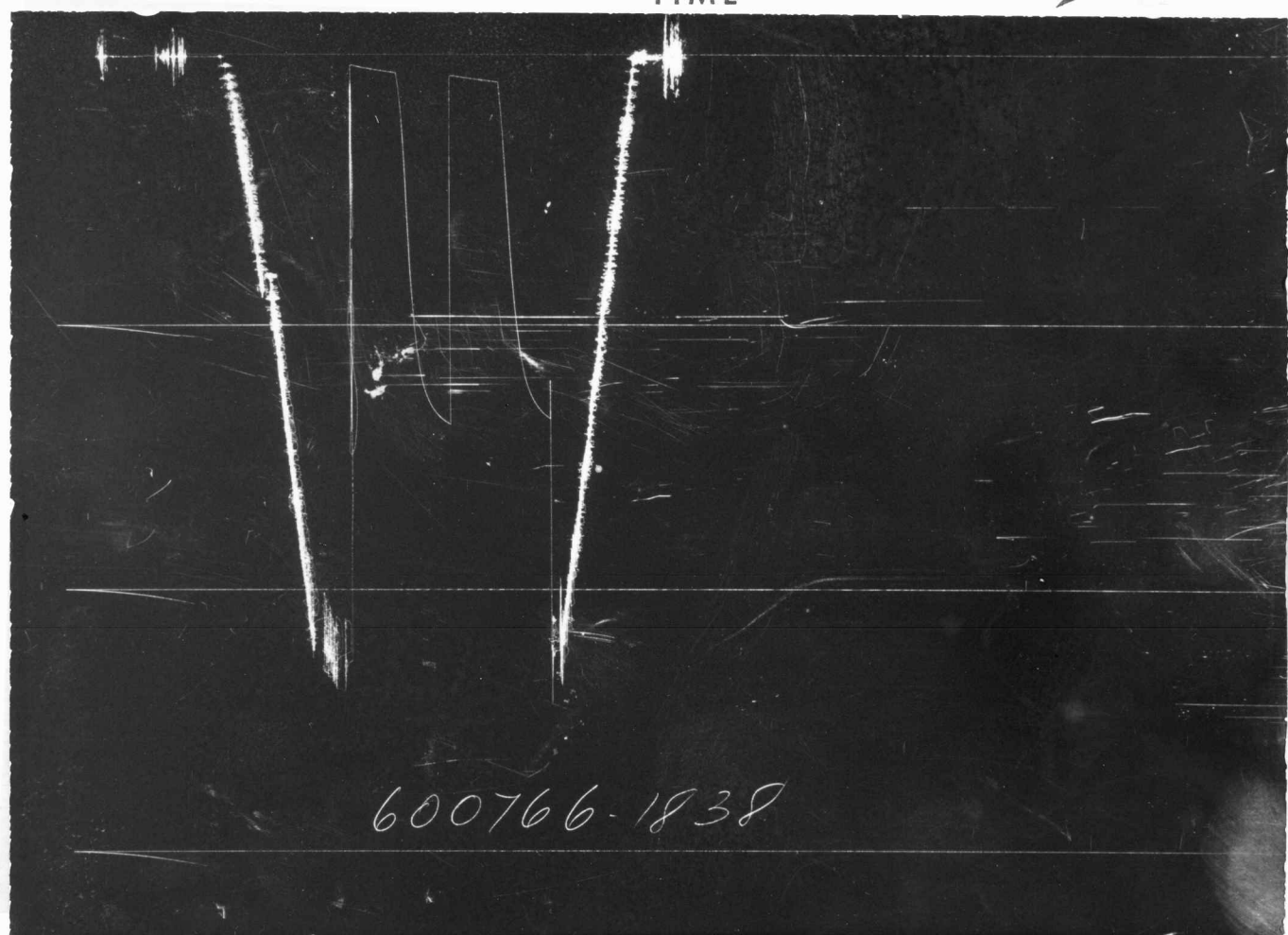
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	3370'	
Drill Collars	4½"	2.764"	775' Weight Pipe	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	60.92"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4110'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4112'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	4122'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	4127'
Flush Joint Anchor	5"	2.37"	18'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	61.63"	4141'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				

PRESSURE



TIME

PRESSURE



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

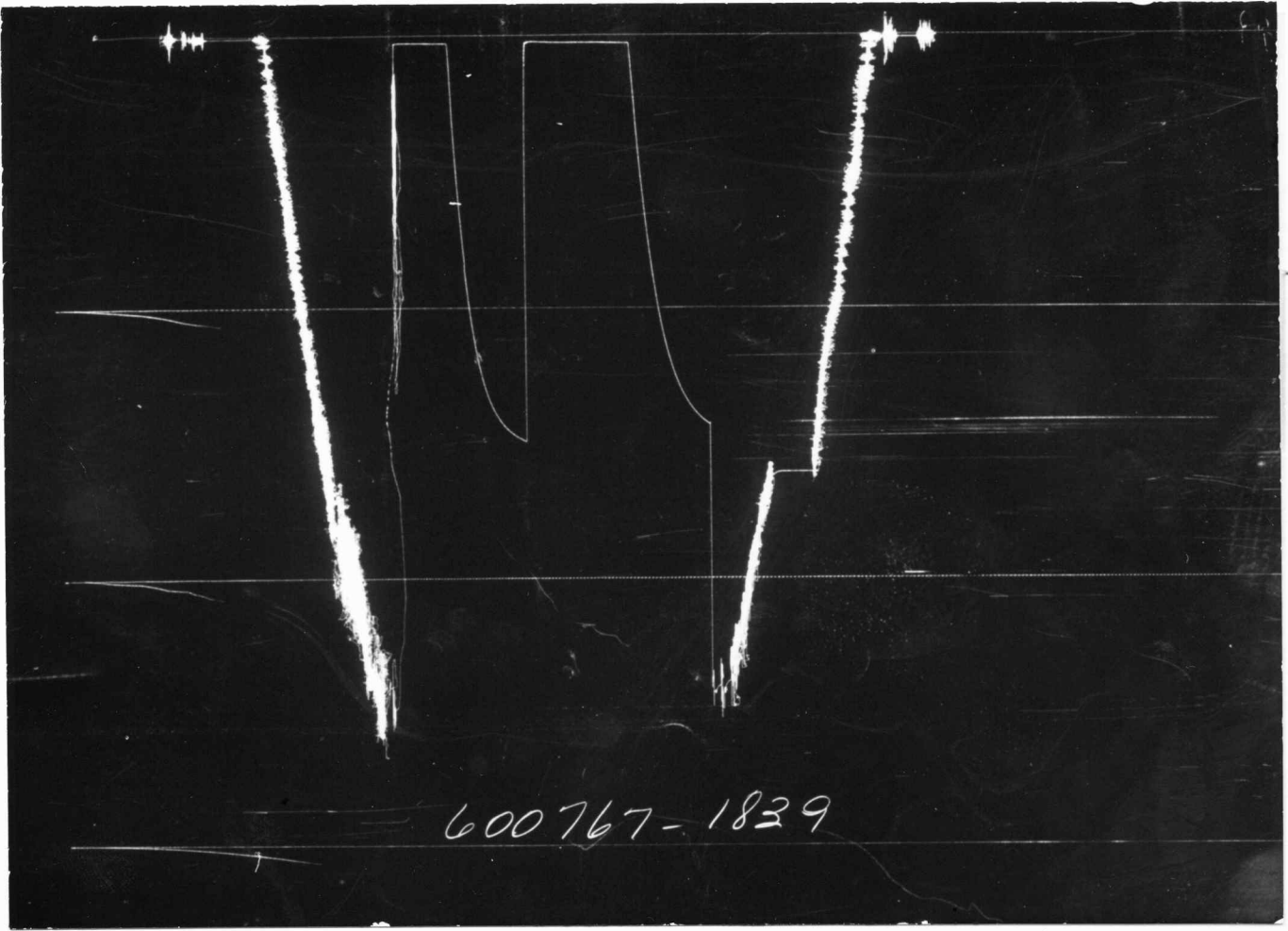
Gauge No. 1839		Depth 4372'		Clock No. 4309		12 hour		Ticket No. 600767	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.000	.000	26	.000	26	.000	26		
1	.208	.0333	528*	.409	26	.0341	429*		
2		.0600	808			.0614	678		
3		.0867	1040			.0887	875		
4		.1133	1186			.1160	1036		
5		.1400	1289			.1433	1149		
6		.1667	1358			.1706	1234		
7		.1933	1403			.1978	1297		
8		.2200	1437			.2251	1344		
9		.2467	1459			.2524	1380		
10		.2733	1475			.2797	1405		
11		.3000	1489			.3070	1425		
12									
13									
14									
15									

Gauge No. 1838		Depth 4395'		Clock No. 2488		12 hour	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.000	.000	26	.000	27	.000	26
1	.201	.0336	540*	.411	26	.0342	434*
2		.0604	816			.0616	675
3		.0872	1023			.0890	887
4		.1141	1180			.1164	1037
5		.1409	1285			.1437	1155
6		.1678	1357			.1711	1242
7		.1946	1406			.1985	1304
8		.2215	1438			.2259	1350
9		.2483	1461			.2532	1383
10		.2752	1477			.2806	1406
11		.3020	1490			.3080	1426
12							
13							
14							
15							
Reading Interval		4		4		Minutes	

REMARKS: *First interval equal to 5 minutes

EQUIPMENT DATA

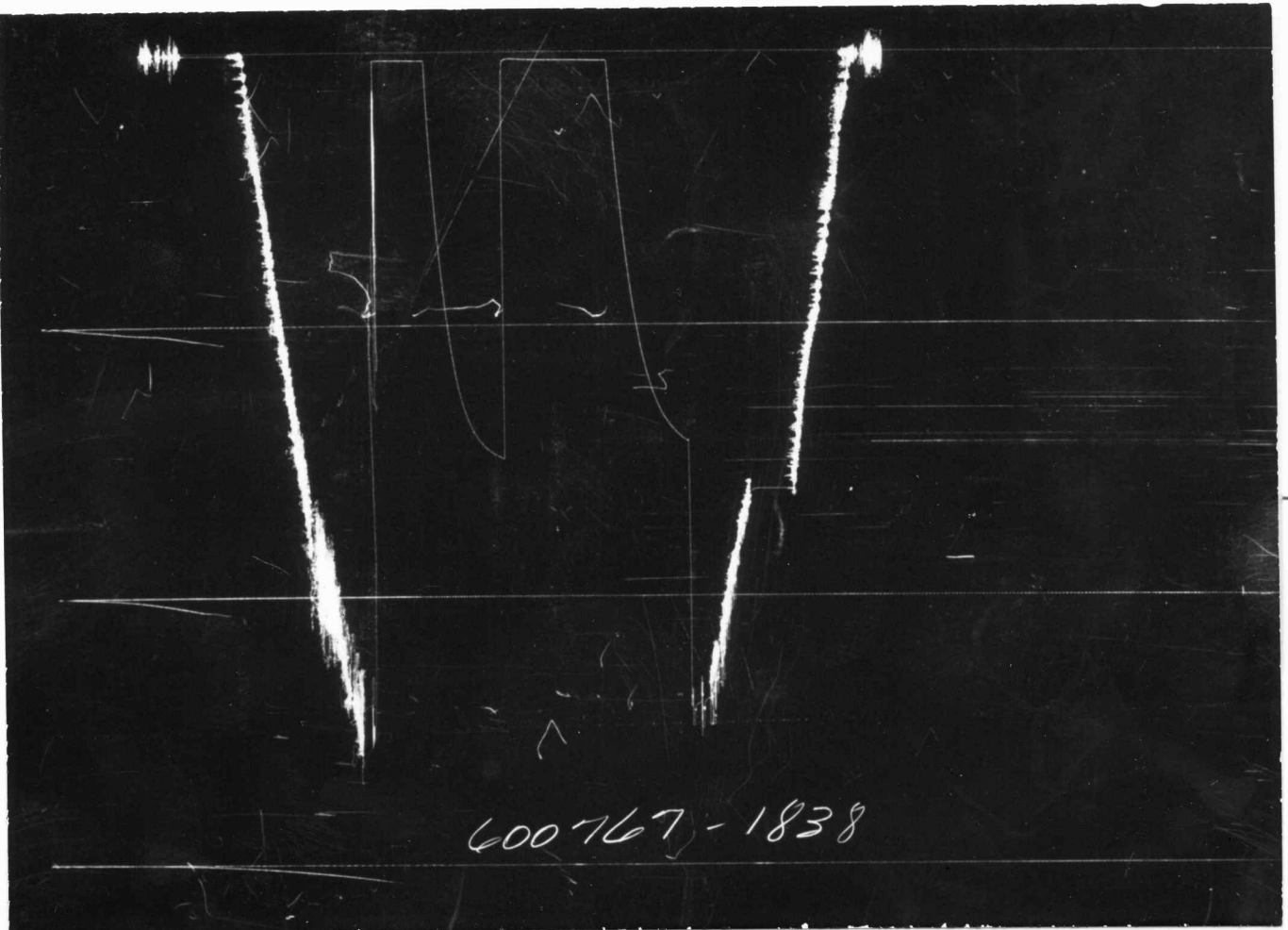
	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3624'	
Drill Collars	4 1/2"	2.764"	775' WEIGHT PIPE	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	60.92"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4370'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4372'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	4382'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	4387'
Flush Joint Anchor	5"	2.37"	12'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	61.63"	4395'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				



600767-1839

PRESSURE

TIME



600767-1838

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

FLUID SAMPLE DATA				Date 10-16-73		Ticket Number 600768	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District GREAT BEND	
Recovery: Cu. Ft. Gas _____				Tester MR. CLINE		Witness MR. MC CANN	
cc. Oil _____				Drilling Contractor HELLAR DRILLING COMPANY DR S			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Mississippi			
Tot. Liquid cc. _____				Elevation 1706' KB Ft.			
Gravity _____ ° API @ _____ °F.		RESISTIVITY _____		CHLORIDE CONTENT _____		Net Productive Interval 16' Ft.	
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
Recovery Water _____ @ _____ °F. _____ ppm				Total Depth 4403' Ft.			
Recovery Mud _____ @ _____ °F. _____ ppm				Main Hole/Casing Size 7 7/8"			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Drill Collar Length 775' WP I.D. 2.764"			
Mud Pit Sample _____ @ _____ °F. _____ ppm				Drill Pipe Length 3628' I.D. 3.826"			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm				Packer Depth(s) 4382'-4387' Ft.			
Mud Weight _____ vis _____ cp				Depth Tester Valve 4370' Ft.			
Cushion		TYPE AMOUNT		Depth Back Pres. Valve		Surface Choke 1"	
						Bottom Choke 3/4"	
Recovered 95		Feet of gas cut drilling mud				Field Area Med. From Tester Valve	
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks SEE PRODUCTION TEST DATA SHEET							
County BARBER							
TEMPERATURE		Gauge No. 1839		Gauge No. 1838		Gauge No.	
Depth: _____ Ft.		Depth: 4372 Ft.		Depth: 4399 Ft.		Depth: _____ Ft.	
Est. _____ °F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off No		Blanked Off Yes		Blanked Off		Tool _____ A.M.	
4397'		Pressures		Pressures		Tool _____ A.M.	
Actual 115 °F.		Pressures		Pressures		Closed _____ P.M.	
		Field Office		Field Office		Reported _____ Computed _____	
Initial Hydrostatic		2500 2391		2504 2402		Minutes _____ Minutes _____	
Flow Initial		47 39		85 71		_____	
Flow Final		56 42		56 45		_____	
Closed in		1301 1304		1310 1306		30 31	
Flow Initial		47 29		37 36		_____	
Flow Final		56 41		56 44		_____	
Closed in		1358 1355		1348 1357		60 59	
Flow Initial		_____		_____		_____	
Flow Final		_____		_____		_____	
Closed in		_____		_____		_____	
Final Hydrostatic		2481 2378		2476 2381		_____	

Legal Location Sec. - Twp. - Rng. **14-32-14-SE-SW-NW**
 Lease Name **FISB "B"**
 Well No. **2**
 Test No. **3**
 Tested Interval **4387'-4403'**
 County **BARBER**
 State **KANSAS**
 Lease Owner/Company Name **BOWERS DRILLING COMPANY**



Gauge No.		1839		Depth		4372'		Clock No.		4309		12 hour		Ticket No.		600768	
First Flow Period		First Closed In Pressure		Second Flow Period		Second Closed In Pressure		Third Flow Period		Third Closed In Pressure		Time Defl. .000"		PSIG Temp. Corr.		Time Defl. .000"	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.
0	.000	39		.000	29	.000		.000	41	.000		.000					
1	.0410	37*		.0271	34**	.0638		.0407	375***	.0407		.0407					
2	.0752	41		.0542	37	.1346		.0678	570	.0678		.0678					
3	.1094	42		.0813	39	.2054		.0949	728	.0949		.0949					
4	.1436	42		.1084	41	.2762		.1220	871	.1220		.1220					
5	.1778	42		.1355	41	.3470		.1491	992	.1491		.1491					
6	.2120	42		.1626	41	.4180		.1762	1088	.1762		.1762					
7				.1897				.2033	1168	.2033		.2033					
8				.2168				.2304	1229	.2304		.2304					
9				.2439				.2575	1281	.2575		.2575					
10				.2710				.2846	1321	.2846		.2846					
11				.2980				.3120	1355	.3120		.3120					
12																	
13																	
14																	
15																	
Gauge No.		1838		Depth		4399'		Clock No.		2488		hour		12			
0	.000	71		.000	36	.000		.000	44	.000		.000					
1	.208	45		.0276	38**	.0621		.0413	399***	.0413		.0413					
2				.0552	41	.1311		.0689	587	.0689		.0689					
3	PLUGGING			.0828	42	.2001		.0965	756	.0965		.0965					
4				.1104	43	.2691		.1241	884	.1241		.1241					
5				.1380	43	.3381		.1517	991	.1517		.1517					
6				.1656	44	.4070		.1793	1087	.1793		.1793					
7				.1932				.2069	1163	.2069		.2069					
8				.2208				.2345	1227	.2345		.2345					
9				.2484				.2621	1281	.2621		.2621					
10				.2760				.2897	1323	.2897		.2897					
11				.3040				.3170	1357	.3170		.3170					
12																	
13																	
14																	
15																	
Reading Interval		5		4		10		4								Minutes	

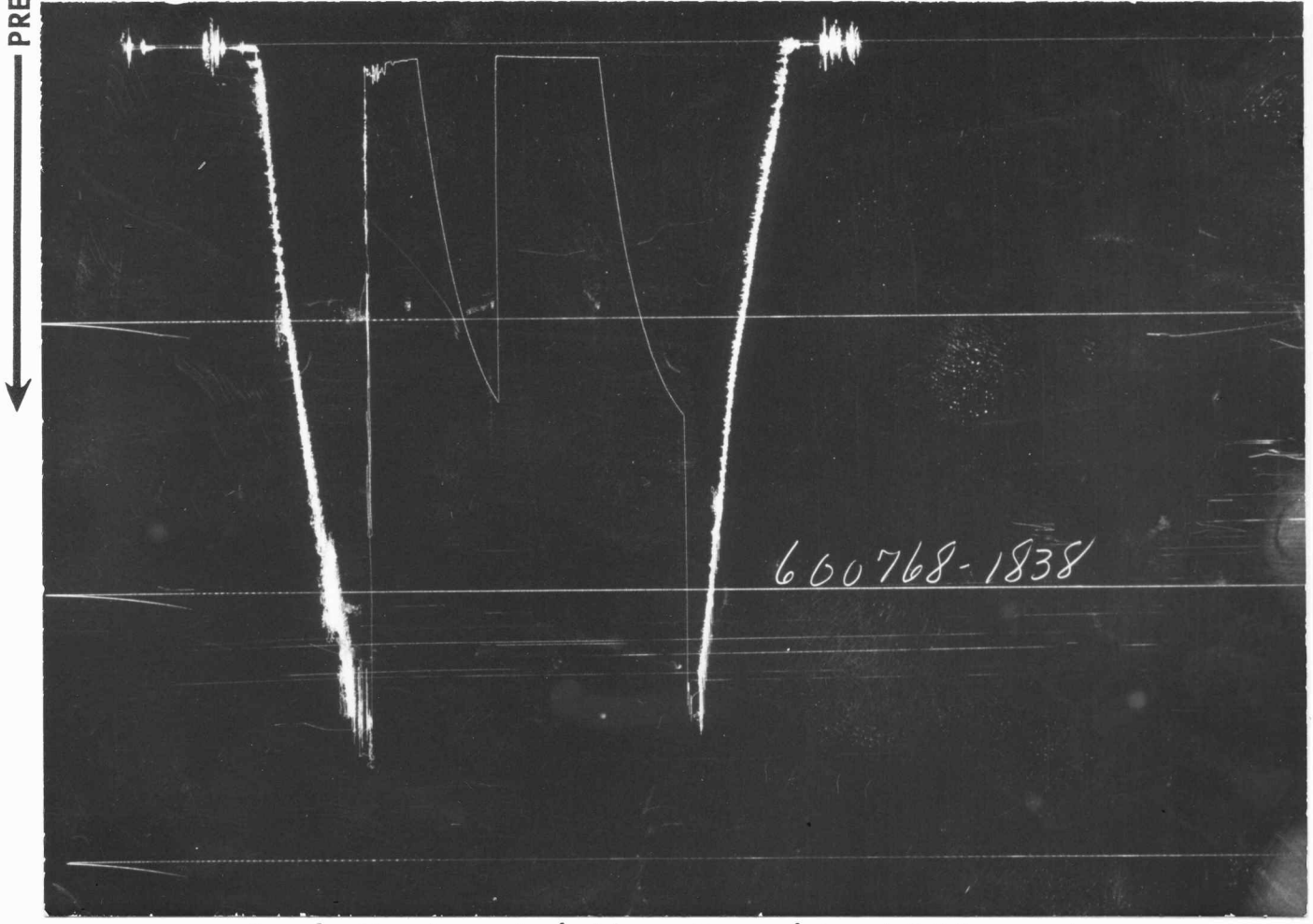
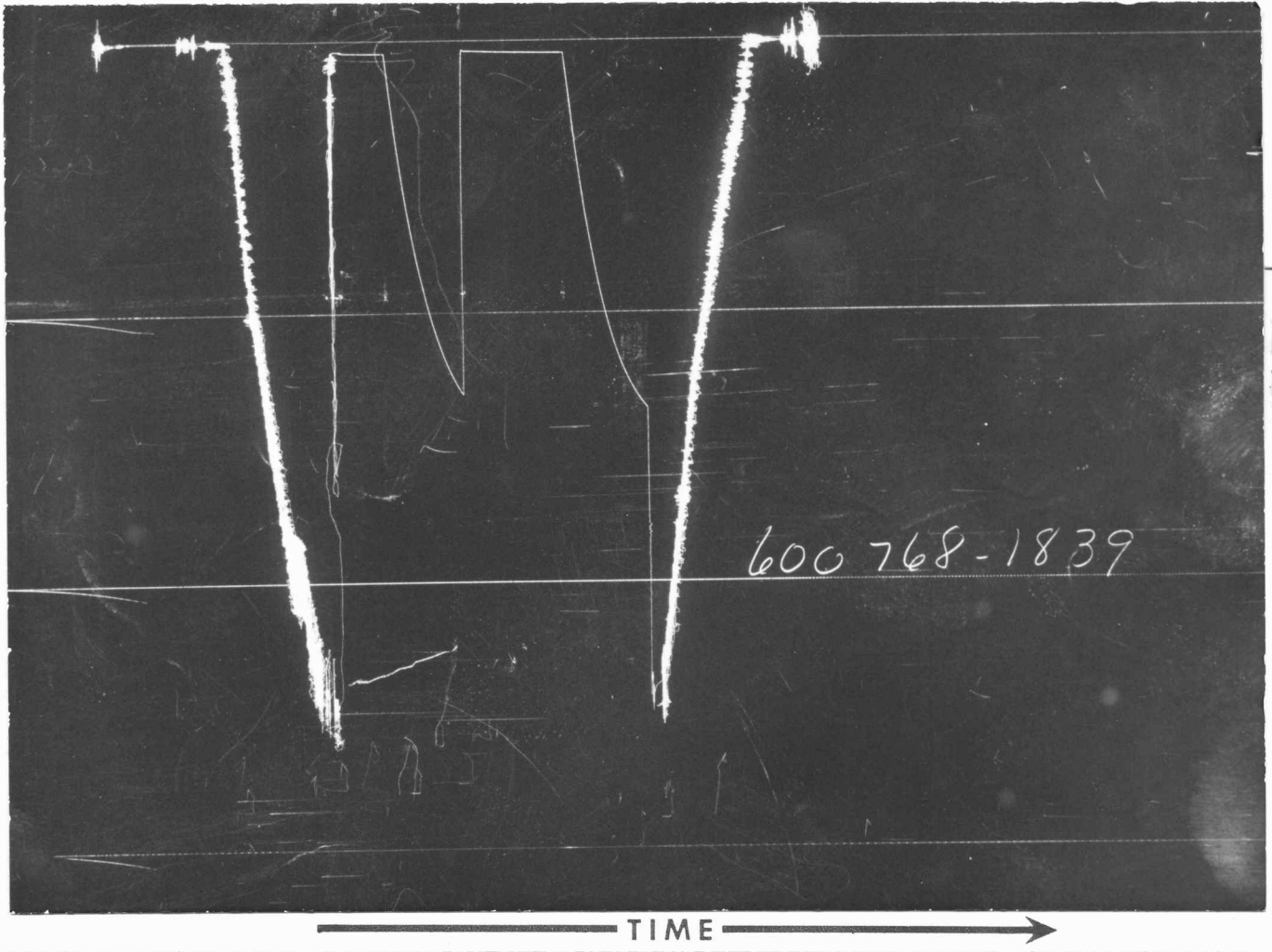
REMARKS: * First interval equal to 6 minutes **-9 minutes ***-6 minutes.

EQUIPMENT DATA

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600768

	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	3628'	
Drill Collars	4½"	2.764"	775' WP	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	60.92"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4370'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4372'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	4382'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	4387'
Flush Joint Anchor	5"	2.37"	16'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	61.63'	4399'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				



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

TEMPERATURE RECORDER CHART



10° each circle

- OF_3 = Theoretical Open Flow Potential with/Damage Removed Max. MCF/D
 OF_4 = Theoretical Open Flow Potential with/Damage Removed Min. MCF/D
 P_s = Extrapolated Static Pressure Psig.
 P_f = Final Flow Pressure Psig.
 P_{ot} = Potentiometric Surface (Fresh Water *) Feet
 Q = Average Adjusted Production Rate During Test bbls/day
 Q_1 = Theoretical Production w/Damage Removed bbls/day
 Q_g = Measured Gas Production Rate MCF/D
 R = Corrected Recovery bbls
 r_w = Radius of Well Bore Feet
 t = Flow Time Minutes
 t_o = Total Flow Time Minutes
 T = Temperature Rankine °R
 Z = Compressibility Factor —
 μ = Viscosity Gas or Liquid CP
Log = Common Log

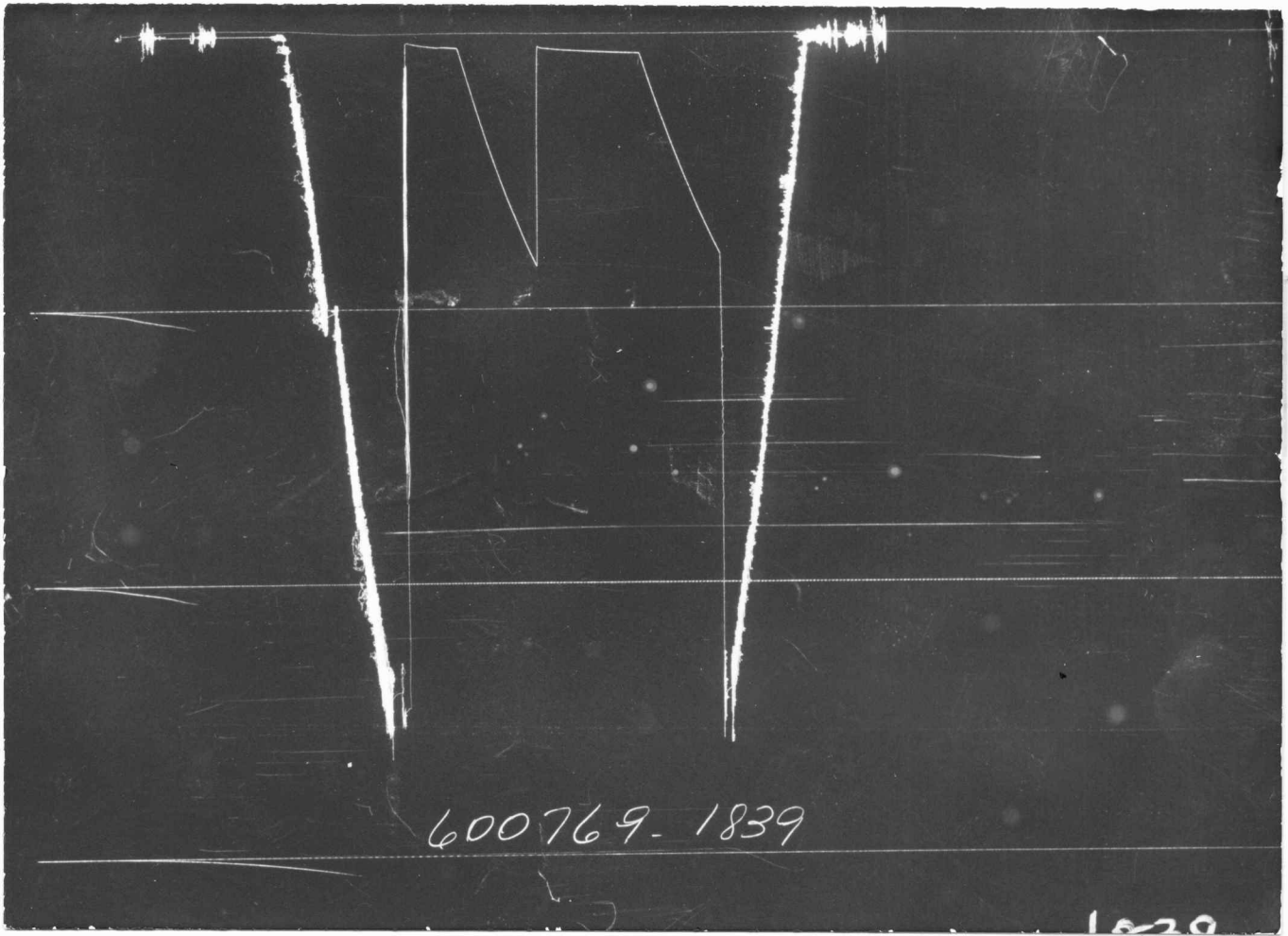
* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

FLUID SAMPLE DATA				Date	10-17-73	Ticket Number	600769	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job	OPEN HOLE	Halliburton District	GREAT BEND	
Recovery: Cu. Ft. Gas _____				Tester	MR. CLINE	Witness	MR. MC CANN	
cc. Oil _____				Drilling Contractor	HELLAR DRILLING COMPANY	IC		
cc. Water _____				EQUIPMENT & HOLE DATA				
cc. Mud _____				Formation Tested	Mississippi			
Tot. Liquid cc. _____				Elevation	1706'	KB	Ft.	
Gravity _____ ° API @ _____ ° F.	RESISTIVITY			Net Productive Interval	14'		Ft.	
Gas/Oil Ratio _____ cu. ft./bbl.	CHLORIDE CONTENT			All Depths Measured From	Kelly Bushing			
Recovery Water _____ @ _____ ° F. _____ ppm				Total Depth	4413'		Ft.	
Recovery Mud _____ @ _____ ° F. _____ ppm				Main Hole/Casing Size	7 7/8"			
Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm				Drill Collar Length	775' WP I.D. 2.764" WP			
Mud Pit Sample _____ @ _____ ° F. _____ ppm				Drill Pipe Length	3638' I.D. 3.826"			
Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm				Packer Depth(s)	4394' - 4399'			
Mud Weight _____ vis _____ cp				Depth Tester Valve	4382'			
Cushion	TYPE	AMOUNT	Depth Back Pres. Valve	Surface Choke	1"	Bottom Choke	3/4"	
Recovered	10	Feet of Oil cut mud						
Recovered	90	Feet of Thin gas cut mud						
Recovered	30	Feet of Muddy water						
Recovered	3700	Feet of Gas in drill pipe						
Recovered		Feet of						
Remarks Opened tool for 30 minute first flow with a strong blow throughout flow. Closed tool for 45 minute initial closed in pressure. Reopened tool for 60 minute second flow with a strong blow throughout test. Closed tool for 45 minute second closed in pressure.								
TEMPERATURE	Gauge No. 1839	Gauge No. 1838	Gauge No.	TIME				
	Depth: 4384' Ft.	Depth: 4409' Ft.	Depth: Ft.	12 Hour Clock				
Est. °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Tool Opened 07:40 P.M.				
4408' @ Actual 119°F.	Pressures		Pressures		Pressures			Tool Closed 10:40 P.M.
	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	2443	2395	2456	2397				
First Period	Flow Initial	37	35	28	39			
	Flow Final	47	53	37	55		30	
	Closed in	843	837	833	841		45	
Second Period	Flow Initial	47	46	47	46			
	Flow Final	66	72	66	73		60	
	Closed in	805	795	795	795		45	
Third Period	Flow Initial							
	Flow Final							
	Closed in							
	Final Hydrostatic	2423	2386	2437	2387			

Legal Location Sec. - Twp. - Rng. 14 - 32 - 14
 Lease Name ELSA "B"
 Well No. 2
 Test No. 4
 Tested Interval 4399' - 4413'
 County BARBER
 State KANSAS
 Lease Owner/Company Name BOWERS DRILLING COMPANY

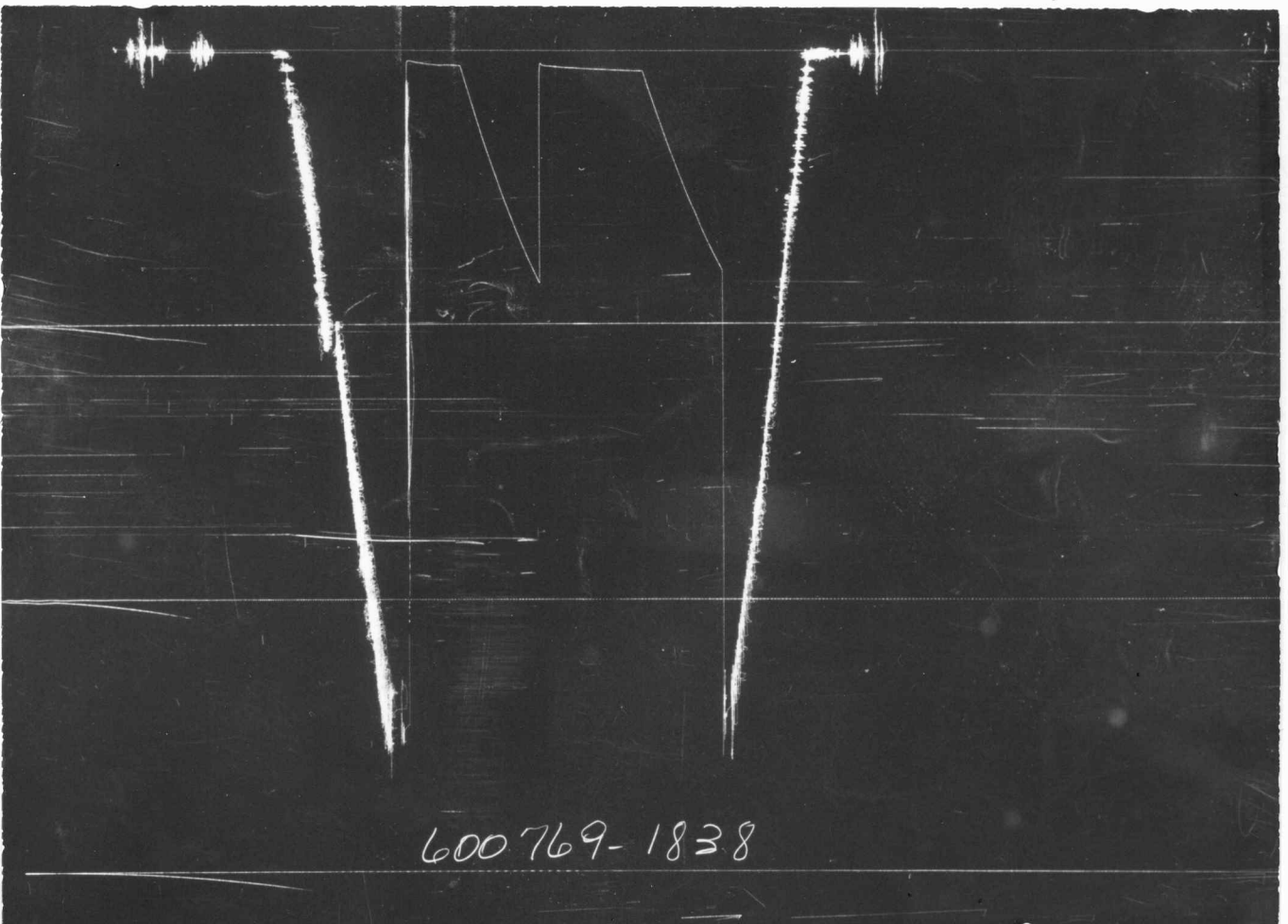


	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	5.75"	2.75"	12"	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	3638'	
Drill Collars	4 1/2"	2.764"	775' WEIGHT PIPE	
Handling Sub & Choke Assembly				
Dual CIP Valve	5"	.87"	60.92"	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	60.21"	4382'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	49.63"	4384'
Hydraulic Jar				
VR Safety Joint				
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53"	48.89"	4394'
Distributor				
Packer Assembly	6 3/4"	1.53"	48.89"	4399'
Flush Joint Anchor	5"	2.37"	14'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	3.06"	61.63"	4409'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				



PRESSURE

TIME



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

TEMPERATURE RECORDER CHART



10° each circle.

- MCF/D
- OF_4 = Theoretical Open Flow Potential with/Damage Removed Min. MCF/D
- P_s = Extrapolated Static Pressure Psig.
- P_f = Final Flow Pressure Psig.
- P_{ot} = Potentiometric Surface (Fresh Water *) Feet
- Q = Average Adjusted Production Rate During Test bbls/day
- Q_1 = Theoretical Production w/Damage Removed bbls/day
- Q_g = Measured Gas Production Rate MCF/D
- R = Corrected Recovery bbls
- r_w = Radius of Well Bore Feet
- t = Flow Time Minutes
- t_o = Total Flow Time Minutes
- T = Temperature Rankine °R
- Z = Compressibility Factor
- μ = Viscosity Gas or Liquid CP
- Log** = Common Log

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,
Fresh Water Corrected to 100° F.