

FLUID SAMPLE DATA				Date 10-7-80		Ticket Number 900079	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity 40 ° API @ 60 ° F. Gas/Oil Ratio _____ cu. ft./bbl.				Kind of D.S.T. OPEN HOLE		Halliburton Location PRATT	
				Tester L. R. PARKER		Witness C. RHOADES	
				Drilling Contractor A. L. ABERCROMBIE DRILLING COMPANY DR			
EQUIPMENT & HOLE DATA							
				Formation Tested Marmaton			
				Elevation 2190' Ft.			
				Net Productive Interval 12' Ft.			
				All Depths Measured From Kelly Bushing			
				Total Depth 4922' Ft.			
				Main Hole/Casing Size 7 7/8"			
				Drill Collar Length 90-630' W.P.I.D. 2.25-2.764" W.P.			
				Drill Pipe Length 4125' I.D. 3.826"			
				Packer Depth(s) 4877- 4883' Ft.			
				Depth Tester Valve 4860' Ft.			
TYPE		AMOUNT		Depth Back		Surface	
Cushion				Ft. Pres. Valve		Choke 1" Bottom Choke 3/4"	
Recovered	550	Feet of	free gassy oil				
Recovered	50	Feet of	heavy gas and oil cut frothy mud				
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks See production test data sheet							
UTR-Unable to read							
TEMPERATURE		Gauge No. 5605		Gauge No. 5604		Gauge No.	
		Depth: 4862 Ft.		Depth: 4919 Ft.		Depth: Ft.	
		12 Hour Clock		12 Hour Clock		Hour Clock	
Est. °F.		Blanked Off NO		Blanked Off YES		Blanked Off	
4917'						Tool Opened 10:00	
Actual 114 °F.						Opened Bypass 14:30	
		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic			2522.7	2525	2536.4		
First Period	Flow Initial		66.4	62	57.4		
	Flow Final		99.1	103	114.9		
	Closed in		1594.8	1614	1615.7		
Second Period	Flow Initial		172.8	103	176.5		
	Flow Final		160.5	175	175.5		
	Closed in		1565.9	1583	1585.7		
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic			UTR	2515	2447.1		

 Legal Location
 Sec. - Twp. - Rng.

26-30-18

Field Area

Mea. From Tester Valve

County

KIOWA

State

KANSAS

YOST

Lease Name

1

Well No.

1

Test No.

4883-4922'

Tested Interval

THE MAURICE L. BROWN COMPANY

Lease Owner/Company Name

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 900079
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
10-6-80 23:40						Called out
10-7-80 03:00						On location
07:15						Picked up tool
07:55						Tool made up and in rotary table
09:57						On bottom
10:00						Opened tool with a strong blow in
						1 minute
10:45						Gas to surface in 45 minutes-open
						2" line on 1 1/2" choke
10:46						Change to 1" choke
10:50						
10:55		1/2	3	59.2		
11:00		1/2		33.9		Closed tool
12:00			1			Reopened tool to 2" line on 1/4" choke
12:05		1/4	10	30.8		
12:10		"	14	37.6		
12:15		"	14	37.6		
12:20		"	14	37.6		
12:25		"	15	39.2		
12:30		"	15	39.2		
12:35		"	15	39.2		
12:40		"	15	39.2		
12:45		"	15	39.2		
12:50		"	14	37.6		
12:55		"	14	37.6		
13:00		"	14	37.6		Closed tool

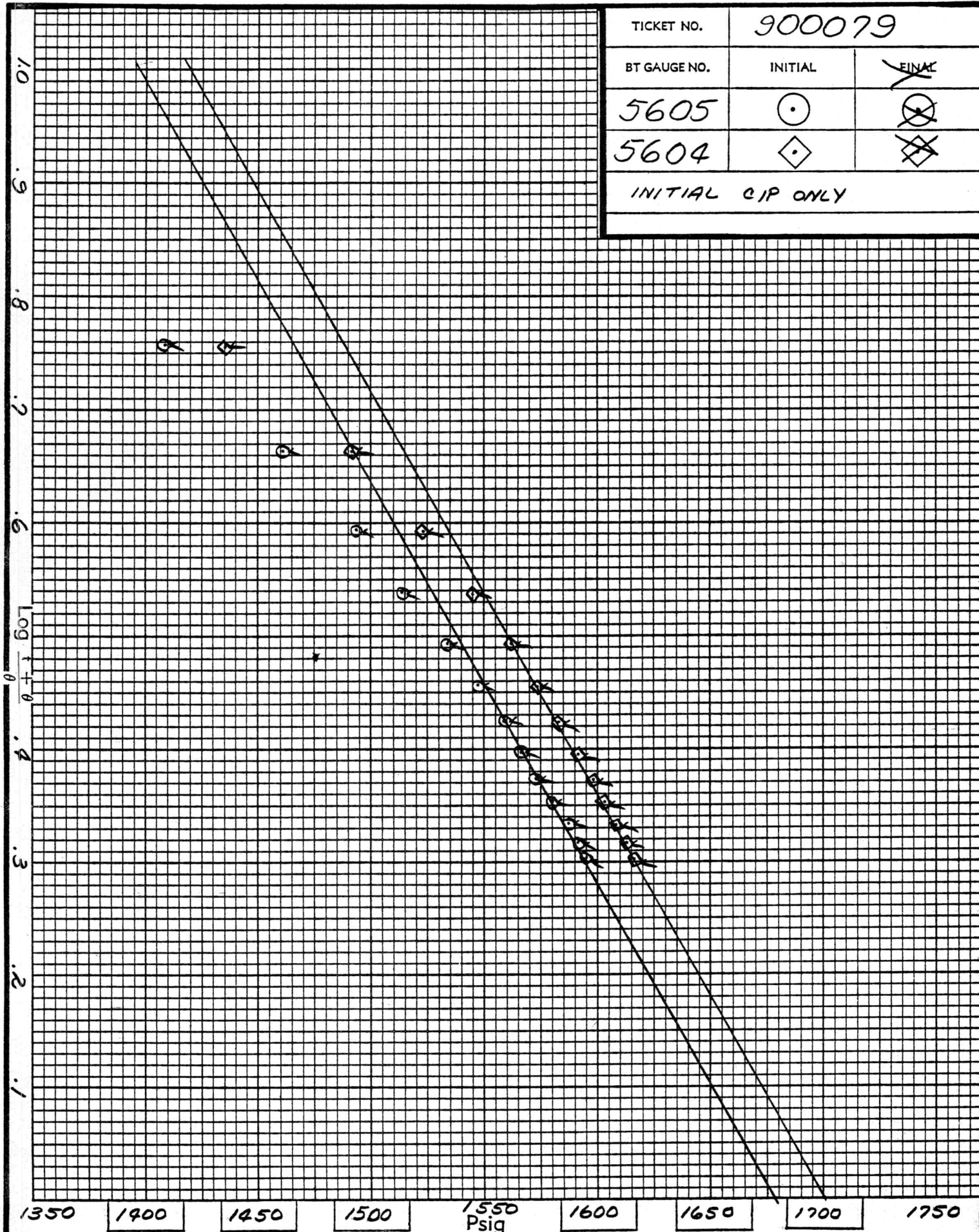
Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 900079
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

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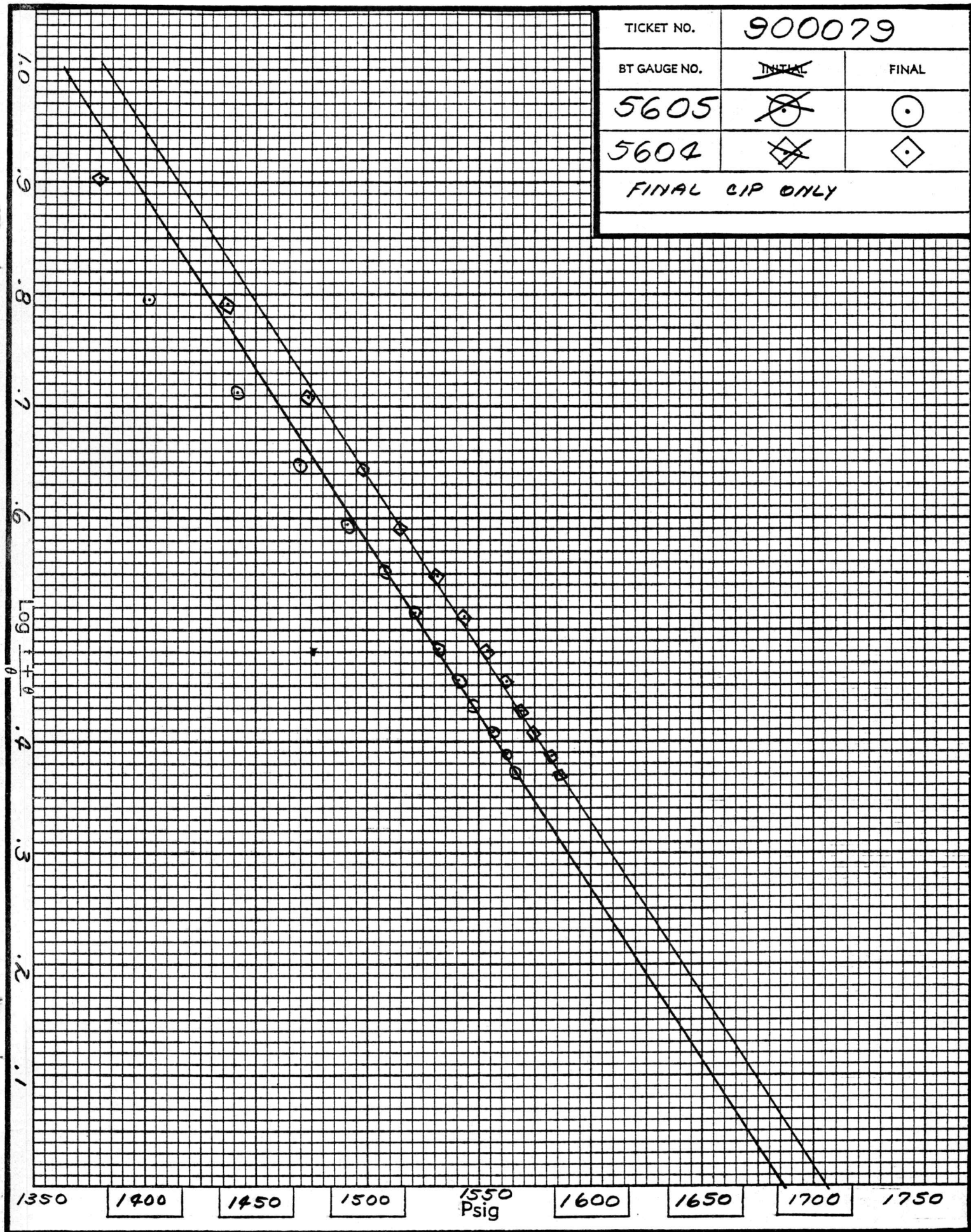
Gauge No. 5605		Depth 4862'		Clock No. 3228		12 hour		Ticket No. 900079	
First Flow Period		Closed In Pressure		Second Flow Period		Closed In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0 .000	66.4	.000	-----	.000	172.8	.000	-----		160.5
1 .0464*	54.1	.0329**	1.124	.0337**	99.1	.0333**	1.399		837.7
2 .0861	65.4	.0592	.893	.0742	102.2	.0733	1.077		1212.5
3 .1259	75.6	.0855	.758	.1147	114.5	.1133	.907		1338.8
4 .1657	91.0	.1118	.664	.1552	125.7	.1532	.795		1402.4
5 .2055	107.3	.1381	.594	.1956	131.9	.1932	.712		1441.4
6 .2453	126.7	.1643	.539	.2361	138.0	.2332	.647		1470.2
7 .2850	141.1	.1906	.494	.2766	144.1	.2732	.595		1490.7
8 (.293	147.20)	.2169	.457	.3170	152.3	.3131	.552		1508.2
9 .3248	122.7	.2432	.425	.3575	155.4	.3531	.515		1520.6
10 .3646	102.2	.2695	.398	.3980	160.5	.3931	.483		1531.9
11 .4040	99.1	.2958	.374			.4331	.455		1541.2
12		.3221	.353			.4731	.431		1547.4
13		.3484	.334			.5130	.409		1555.6
14		.3747	.318			.5530	.389		1561.8
15		.4010	.303			.5930	.372		1565.9

Gauge No. 5604		Depth 4919'		Clock No. 30954		hour 12	
0 .000	57.4	.000	----	.000	176.5	.000	---
1 .0468*	70.8	.0334**	1.122	.0336***	106.7	.0337***	1.396
2 .0870	83.1	.0600	.892	.0740	119.0	.0742	1.074
3 .1271	93.4	.0867	.756	.1144	136.5	.1146	.904
4 .1672	110.8	.1134	.663	.1548	141.6	.1551	.792
5 .2073	127.3	.1401	.592	.1951	147.8	.1955	.709
6 .2475	144.7	.1668	.537	.2355	156.0	.2360	.645
7 .2876	161.1	.1935	.493	.2759	161.1	.2764	.592
8 (.301	165.20)	.2202	.455	.3162	169.4	.3168	.549
9 .3277	119.0	.2469	.424	.3566	171.4	.3573	.512
10 .3679	112.9	.2736	.396	.3970	175.5	.3978	.481
11 .4080	114.9	.3002	.373			.4382	.453
12		.3269	.352			.4786	.428
13		.3536	.333			.5191	.407
14		.3803	.317			.5595	.387
15		.4070	.302			.6000	.370
Reading Interval 6		4		6		6	
</							

TICKET NO.	900079	
BT GAUGE NO.	INITIAL	FINAL
5605	○	⊗
5604	◇	⊗
INITIAL CIP ONLY		



EXTRAPOLATED PRESSURE GRAPH



TICKET NO.	900079	
BT GAUGE NO.	INITIAL	FINAL
5605	⊗	⊙
5604	⊠	⊡
FINAL CIP ONLY		

EXTRAPOLATED PRESSURE GRAPH

Liquid Production

B.T. Gauge Numbers			5605	5604	Ticket Number	900079
			PRESSURE	PRESSURE		
Initial Hydrostatic			2522.7	2536.4	Elevation	2190 ft.
Final Hydrostatic			UTR	2447.1		
1st Flow	Initial	Time	66.4	57.4	Indicated Production	1st Flow - bbls./day
	Final	61	99.1	114.9		2nd Flow 28 bbls./day
	Closed In Pressure	61	1594.8	1615.7		3rd Flow - bbls./day
2nd Flow	Initial	Time	172.8	176.5	Drill Collar Length	90 ft.
	Final	59	160.5	175.5	Drill Collar I.D.	2.25 in.
	Closed In Pressure	89	1565.9	1585.7	Drill Pipe Factor W.P.	.00742 bbls./ft.
3rd Flow	Initial	Time			Hole Size	7.875 in.
	Final				Footage Tested	12 ft.
	Closed In Pressure				Mud Weight	9.6 lbs./gal.
Extrapolated Static Pressure		1st	1678	1701	Viscosity, Oil or Water	.58* cp
		2nd	1687	1706	Oil API Gravity	40 —
		3rd	-	-	Water Specific Gravity	- —
Slope P/10		1st	1397	1420	Temperature	114 °F
		2nd	1363	1382		
		3rd	-	-		

Remarks: UTR-Unable to read
 NOTE: Unable to arrive at a reliable production rate for initial flow period.
 *-Viscosity used is for 40° API crude having an estimated G.O.R. of 1100 cu. ft. per bbl.

SUMMARY		B.T. Gauge No. 5605 Depth 4862'			B.T. Gauge No. 5604 Depth 4919'			UNITS
PRODUCT	EQUATION	FIRST	SECOND	THIRD	FIRST	SECOND	THIRD	
Production	$Q = \frac{1440 R}{t}$		33			28		bbls. day
Transmissibility	$\frac{Kh}{\mu} = \frac{162.6 Q}{m}$		16.437			13.936		md. ft. cp
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$		97533			8.083		md. ft.
Average Effective	$K = \frac{Kh}{h}$		.794			.674		md.
Permeability	$K_i = \frac{Kh}{h_i}$		.794			.674		md.
Damage Ratio	$DR = .183 \frac{P_s - P_f}{m}$		.862			.864		—
Theoretical Potential w/Damage Removed	$Q_i = Q DR$		33			28		bbls. day
Approx. Radius of Investigation	$b \approx \sqrt{Kt}$ or $\sqrt{Kt_0}$		-			-		ft.
	$b_1 \approx \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$		9.8			9.0		ft.
Potentiometric Surface *	$Pot. = El - GD + 2.319 P_s$		1240			1227		ft.

NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.



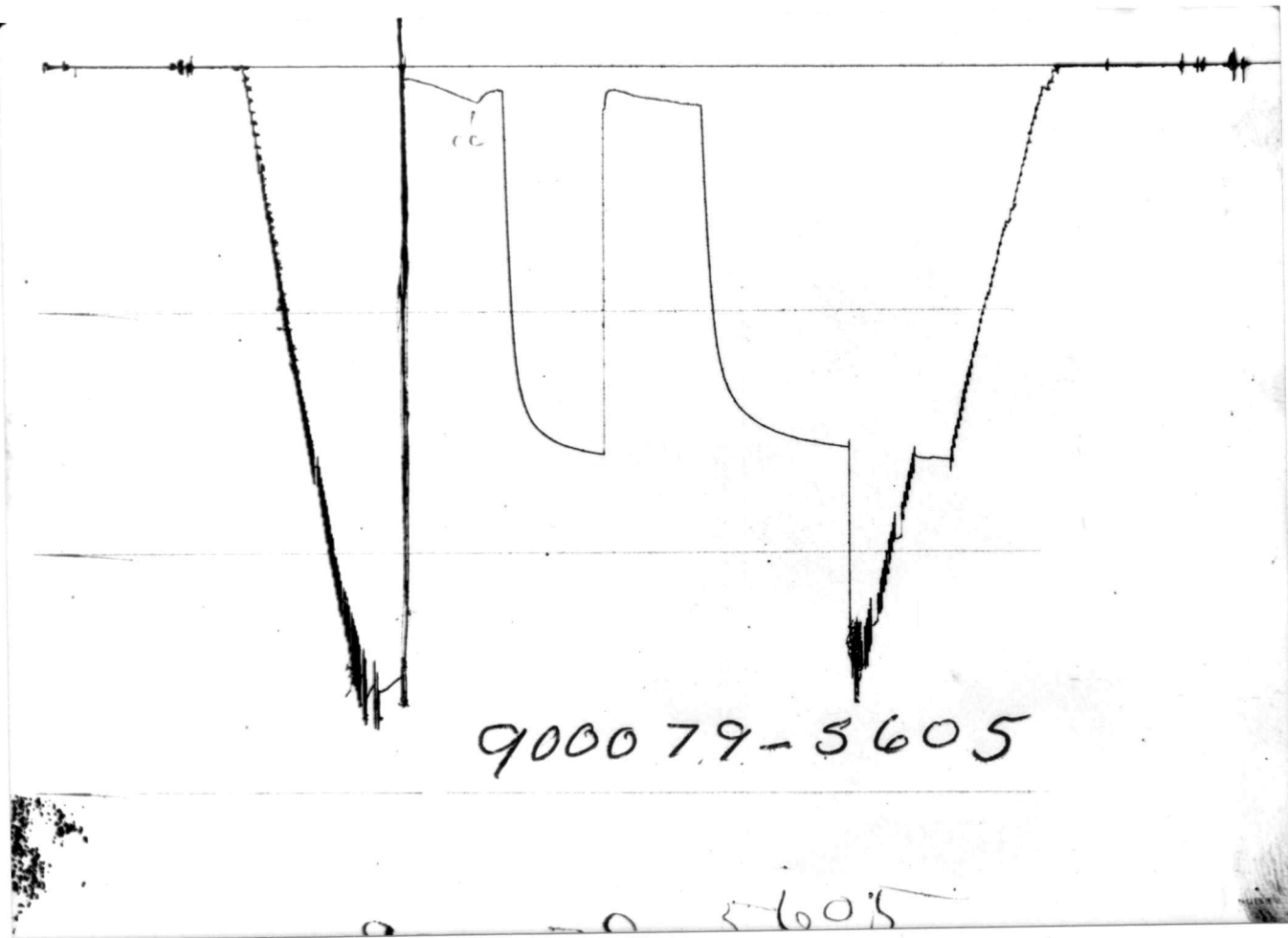
	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	6"	2.75"	1'	
Water Cushion Valve	4 1/2"	3.826"	4125' Drill Pipe	
Drill Pipe	4 1/2"	2.764"	630' Weight Pipe	
Drill Collars	6"	2.25"	90'	
Handling Sub & Choke Assembly	5.75"	3.75"	5'	
Dual CIP Valve	5"	.87"	5'	4855'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4860'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4862'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4877'
Distributor				
Packer Assembly	6.75"	1.53"	6'	4883'
Flush Joint Anchor	5"	2.37"	31'	
Pressure Equalizing Tube	5"	2.44"	2'	4917'
Temp. Recorder	5"	2.44"	4'	4919'
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				4922'

TEMPERATURE
RECORDER
CHART



10° each circle

↑
PRESSURE
↓



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

FLUID SAMPLE DATA				Date 10-8-80		Ticket Number 900080	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of D.S.T. OPEN HOLE		Halliburton Location PRATT	
Recovery: Cu. Ft. Gas _____				Tester PARKER		Witness PALMER	
cc. Oil _____				Drilling Contractor A. L. ABERCROMBIE DRILLING COMPANY			
cc. Water _____				EQUIPMENT & HOLE DATA NM S			
cc. Mud _____				Formation Tested Mississippi			
Tot. Liquid cc. _____				Elevation 2190' Ft.			
Gravity _____ ° API @ _____ °F.				Net Productive Interval 10' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly Bushing			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 5056' Ft.			
				Main Hole/Casing Size 7 7/8"			
Recovery Water _____ @ _____ °F. _____ ppm				Drill Collar Length 90' I.D. 2.25"			
Recovery Mud _____ @ _____ °F. _____ ppm				Drill Pipe Length WP 630' - 4242' I.D. WP 2.764" - 3.826"			
Recovery Mud Filtrate _____ @ _____ °F. _____ ppm				Packer Depth(s) 4994' - 5000' Ft.			
Mud Pit Sample _____ @ _____ °F. _____ ppm				Depth Tester Valve 4977' Ft.			
Mud Pit Sample Filtrate _____ @ _____ °F. _____ ppm							
Mud Weight 9.7 vis 72 sec.							
Cushion		TYPE NONE	AMOUNT	Depth Back Pres. Valve	Surface Choke 1"	Bottom Choke 3/4"	
Recovered 70' Feet of gas cut mud							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Recovered Feet of							
Remarks SEE PRODUCTION TEST DATA SHEET...							
County KIOWA							
TEMPERATURE		Gauge No. 5605	Gauge No. 5604	Gauge No.	TIME (00:00-24:00 hrs.)		
Depth: 4979' Ft.		Depth: 5053' Ft.	Depth:				
Est. °F.		12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 23:00		
Blanked Off NO		Blanked Off YES	Blanked Off	Opened Bypass 04:00			
5051' @		Pressures		Pressures		Pressures	
Actual 109.		Pressures		Pressures		Pressures	
	Field	Office	Field	Office	Field	Office	Reported Minutes
Initial Hydrostatic	-	2581.7	2598	2607.2			Computed Minutes
First Period Flow	Initial	-	170.7	134	206.3		
	Final	-	150.3	164	166.3		
	Closed in	-	851.0	863	863.4		
Second Period Flow	Initial	-	177.9	164	195.0		
	Final	-	155.4	164	163.2		
	Closed in	-	847.9	863	859.3		
Third Period Flow	Initial						
	Final						
	Closed in						
Final Hydrostatic	-	2492.7	2577	2518.7			

Legal Location
Sec. - Twp. - Rng. 26 - 30 - 18

Lease Name

Well No.

Test No.

Tested Interval

Field Area

County KIOWA

State KANSAS

Lease Owner/Company Name

YOST

1

2

5000' - 5056'

THE MAURICE L. BROWN COMPANY

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 900080
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

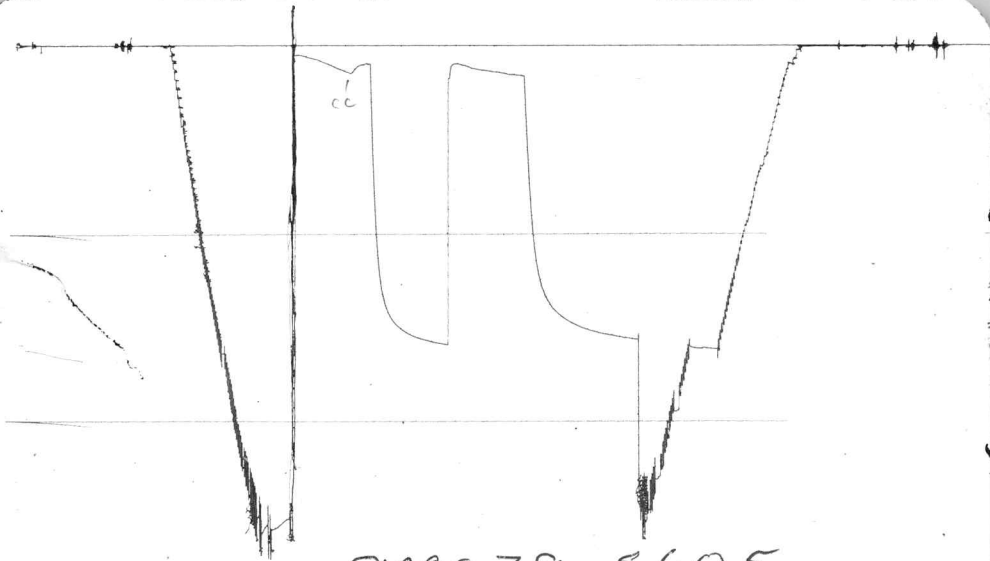
Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
16:30						Called out.
19:00						On location.
19:50						Picked up the tool.
20:30						To6l made up and in rotary table.
22:51						On bottom.
23:00						Tool opened with a strong blow.
23:03						Opened 2" line - 1½" choke.
23:04						Gas to the surface.
23:05		1"				Changed to a 1" choke.
23:10		"	11	499		
23:15		"	13	552		
23:20		"	14	577		
23:25		"	15	603		
23:30		"	16	627		
23:35		"	17	652		
23:40		"	18	687		
23:45		"	18	687		
23:50		"	19	699		
23:55		"	19	699		
24:00		"	19	699		Closed tool.
01:00						Reopened tool - 2" line 1" choke..
01:05		1"	18	687		
01:10		"	21	749		
01:15		"	21	749		
01:20		"	22	773		
SEE PAGE # 2						

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 900080
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

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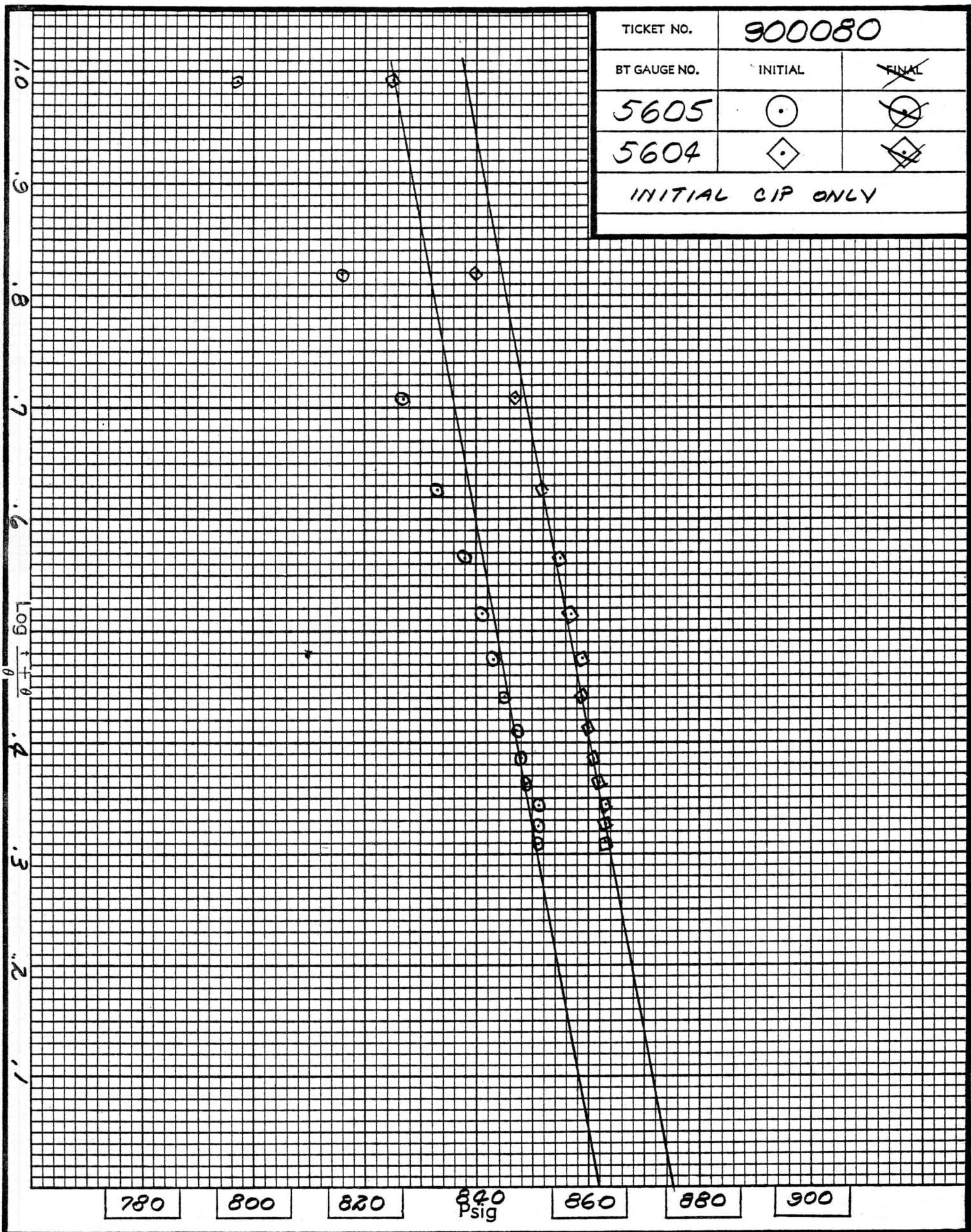
Gauge No. 5605		Depth 4979'		Clock No. 3228X		Ticket No. 900080	
First Flow Period		Closed In Pressure		Second Flow Period		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$	Time Defl. .000"	$\log \frac{t + \theta}{\theta}$
0 .000	170.7	.000	-----	.000	177.9	.000	-----
1 .0133	132.9*	.0201	1.333	.0339	155.4**	.0471	1.261
2 .0533	126.7	.0470	.991	.0746	150.3	.1010	.957
3 .0933	128.8	.0738	.819	.1153	149.2	.1548	.796
4 .1332	133.9	.1007	.708	.1559	149.2	.2087	.690
5 .1732	137.0	.1275	.627	.1966	150.3	.2625	.612
6 .2132	140.0	.1544	.565	.2373	151.3	.3164	.559
7 .2531	143.1	.1812	.516	.2780	150.3	.3702	.505
8 .2931	144.1	.2081	.475	.3186	151.3	.4241	.465
9 .3331	146.2	.2349	.441	.3593	153.3	.4779	.432
10 .3730	147.2	.2618	.411	.4000	155.4	.5318	.403
11 .4130	150.3	.2886	.386			.5856	.378
12		.3155	.363			.6395	.356
13		.3423	.344			.6933	.337
14		.3692	.326			.7472	.320
15		.3960	.310			.8010	.304
Gauge No. 5604		Depth 5052'		Clock No. 3095		hour 12	
0 .000	206.3	.000	-----	.000	195.0	.000	-----
1 .0134	148.8*	.0203	1.334	.0337	161.1*	.0472	1.261
2 .0538	141.6	.0473	.992	.0742	162.2	.1012	.957
3 .0942	146.8	.0744	.820	.1147	162.2	.1552	.796
4 .1345	151.9	.1014	.709	.1552	162.2	.2092	.690
5 .1749	154.0	.1285	.628	.1956	162.2	.2632	.612
6 .2152	157.0	.1555	.566	.2361	162.2	.3172	.553
7 .2556	158.1	.1826	.516	.2766	162.2	.3711	.505
8 .2959	168.3	.2096	.476	.3171	163.2	.4251	.465
9 .3363	162.2	.2367	.441	.3575	165.2	.4791	.432
10 .3766	162.2	.2637	.412	.3980	163.2	.5331	.403
11 .4170	166.3	.2908	.386			.5871	.378
12		.3178	.364			.6410	.356
13		.3449	.344			.6950	.337
14		.3720	.327			.7490	.320
15		.3990	.311			.8030	.304
Reading Interval 6		4		6		8	
Minutes		4		6		8	

REMARKS: * INTERVAL = 2 MINUTES. ** INTERVAL = 3 MINUTES. *** INTERVAL = 5 MINUTES. **** INTERVAL = 7 MINUTES.



900079-5605

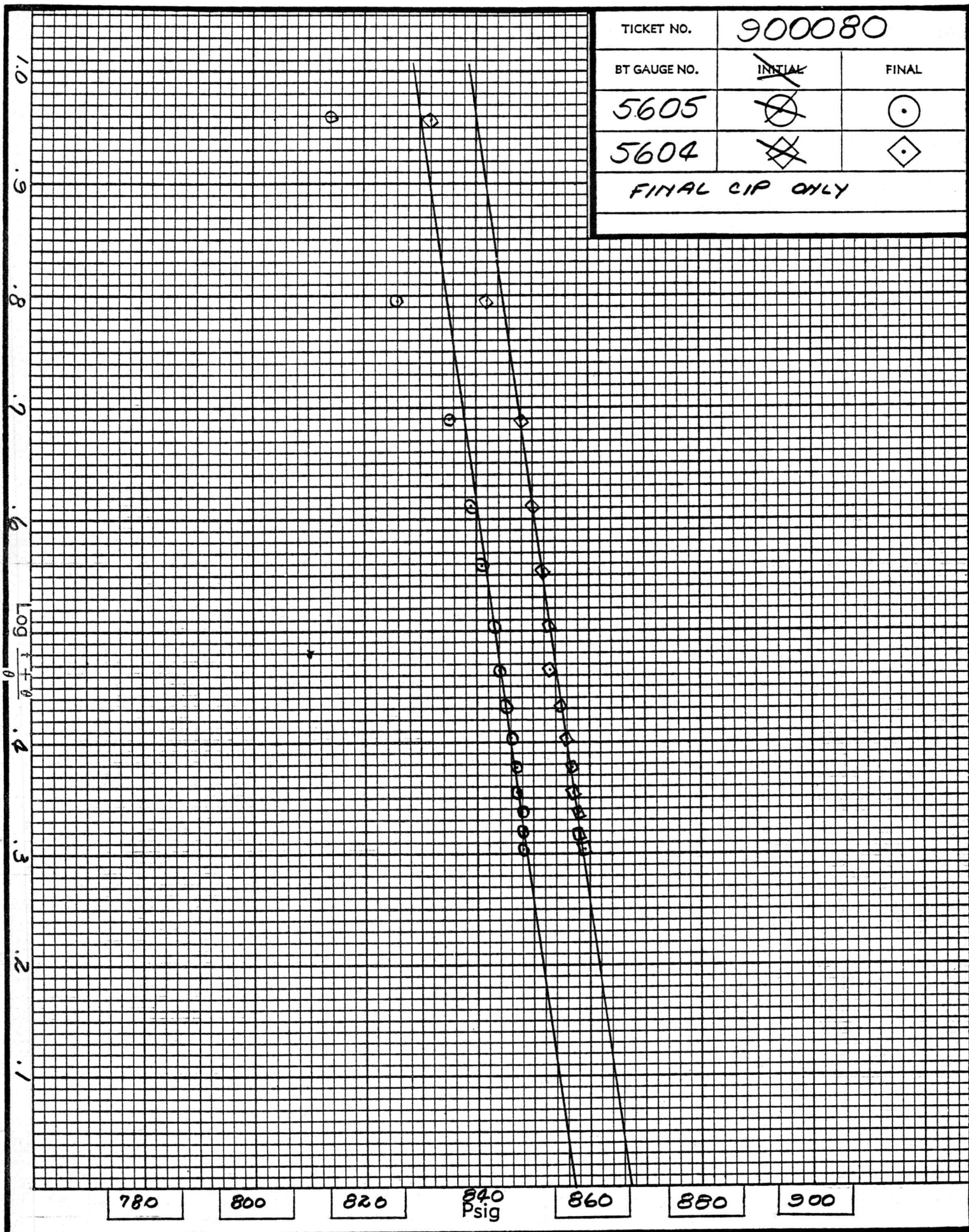
900079-5605



EXTRAPOLATED PRESSURE GRAPH

⑤

LITTLE'S



EXTRAPOLATED PRESSURE GRAPH ⑤

Gas Production

B.T. Gauge Numbers			5605	5604	Ticket Number		900080
Initial Hydrostatic			PRESSURE 2581.7	PRESSURE 2607.2	Elevation		2190 ft.
Final Hydrostatic			2492.7	2518.7	Production Rate	1st Flow	699 MCF
1st Flow	Initial	Time	170.7	206.3		2nd Flow	773 MCF
	Final	62	150.3	166.3		3rd Flow	- MCF
	Closed In Pressure	59	851.0	863.4	Hole Size		7.875" in.
2nd Flow	Initial	Time	177.9	195.0	Footage Tested		10 ft.
	Final	59	155.4	163.2	Mud Weight		9.7 lbs./gal.
	Closed In Pressure	119	847.9	859.3	Gas Viscosity		.014 cp
3rd Flow	Initial	Time			Gas Gravity		Est. 0.65 —
	Final				Gas Compressibility		0.88 —
	Closed In Pressure				Temperature		109 °F
Extrapolated Static Pressure		1st	862	875			
		2nd	857	867			
		3rd	-	-			
Slope P/10		1st	825	838			
		2nd	829	839			
		3rd	-	-			

Remarks:

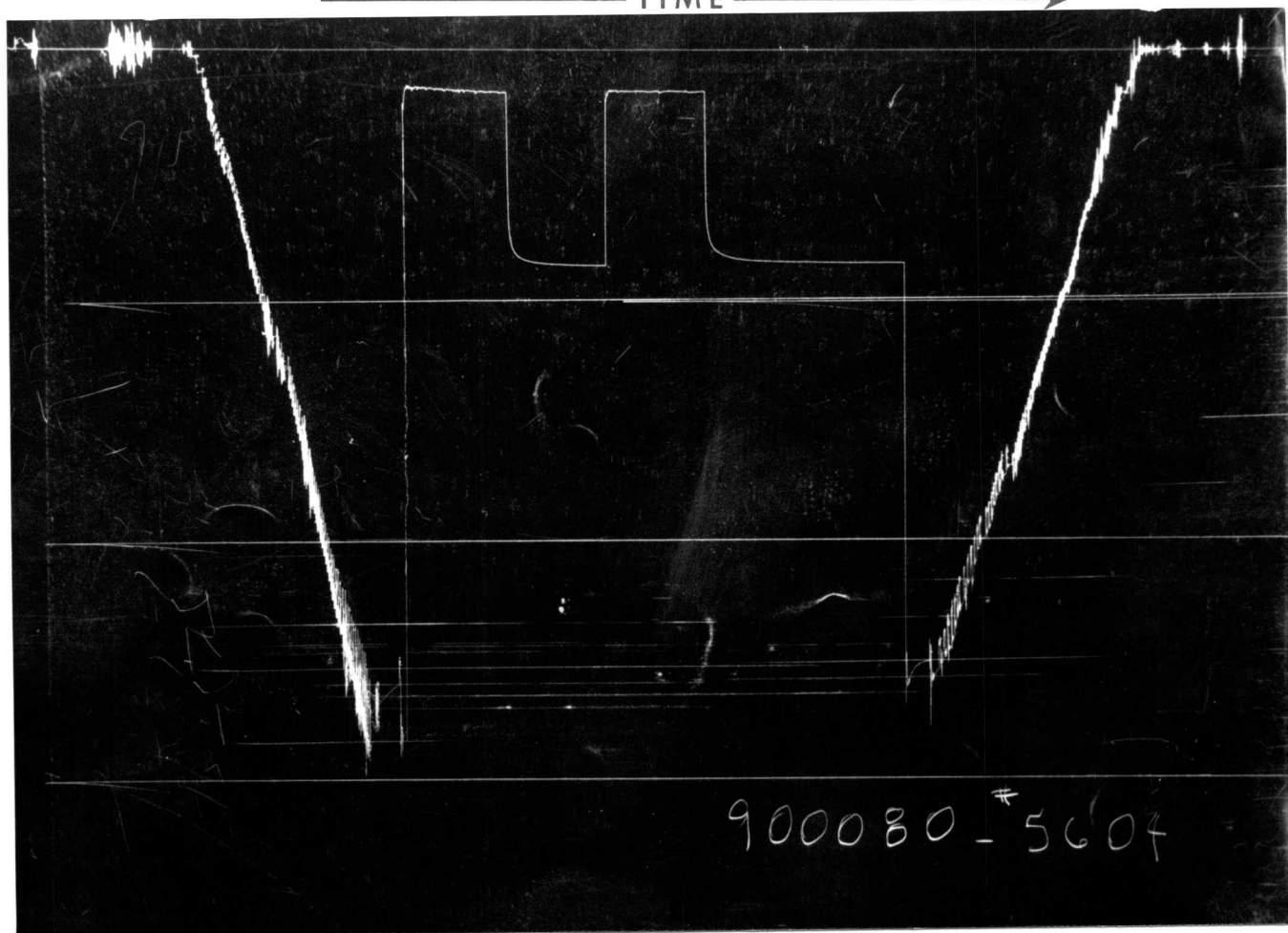
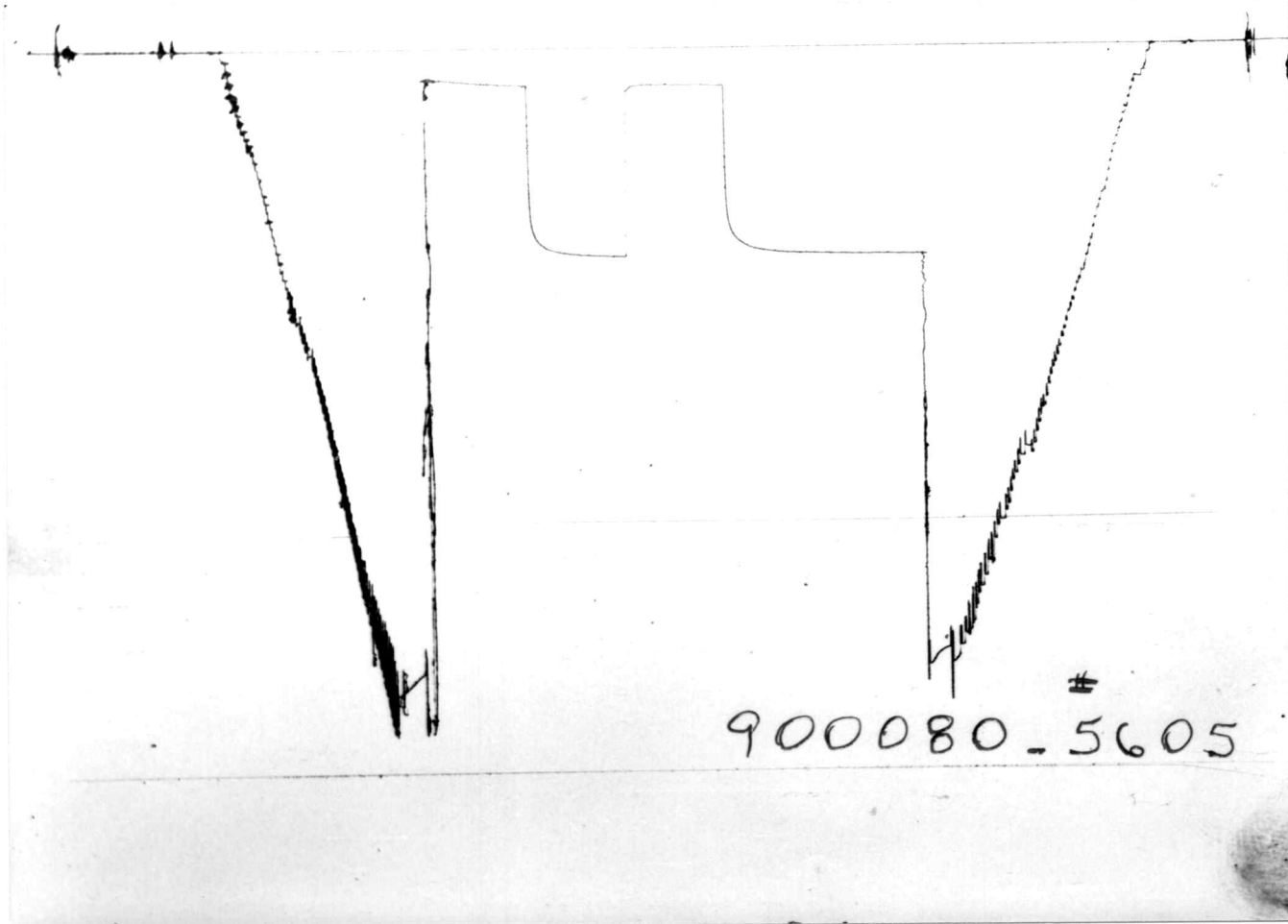
SUMMARY		B.T. Gauge No. 5605/ Depth 4979'			B.T. Gauge No. 5604/ Depth 5053'			UNITS
PRODUCT	EQUATION	FIRST	SECOND	THIRD	FIRST	SECOND	THIRD	
Transmissibility	$\frac{Kh}{\mu} = \frac{1637 Q_r ZT}{m}$	9179.18	13421.7		9039.86	13264.4		md. ft. cp
Theoretical Flow Capacity	$Kh = \frac{Kh}{\mu} \mu$	128.509	187.904		126.558	185.701		md. ft.
Average Effective	$K = \frac{Kh}{h}$	-	-		-	-		md.
Permeability	$K_1 = \frac{Kh}{h_1}$	12.851	18.790		12.656	18.570		md.
Indicated Flow Capacity	$(Kh)_s = \frac{3200 Q_r \mu ZT \log(0.472 b/r_w)}{P_s^2 - P_r^2}$	35.854	45.838		34.931	44.847		md. ft.
Damage Ratio	$DR = \frac{\text{Theo. Flow Cap}}{\text{Indicated Flow Cap}} \frac{Kh}{(Kh)_s}$	3.584	4.099		3.623	4.141		—
Indicated	$OF_1 = \frac{Q_r}{P_s^2 - P_r^2} P_s^2$ Max.	721	799		725	801		MCFD
Flow Rate	$OF_2 = \frac{Q_r}{\sqrt{P_s^2 - P_r^2}} P_s$ Min.	710	786		712	787		MCFD
Theoretical	$OF_3 = OF_1 DR$ Max.	2584	3276		2627	3318		MCFD
Potential Rate	$OF_4 = OF_2 DR$ Min.	2544	3222		2579	3259		MCFD
Approx. Radius of Investigation	$b \approx \sqrt{Kt} \text{ or } \sqrt{Kt_0}$	-	-		-	-		ft.
	$b_1 \approx \sqrt{K_1 t} \text{ or } \sqrt{K_1 t_0}$	29	48		28	48		ft.
Potentiometric Surface *	$Pot. = (EI - GD) + (2.319 Ps)$	-790	-802		-834	-852		ft.

NOTICE: These calculations are based upon information furnished by you and taken from Drill Stem Test pressure charts, and are furnished you for your information. In furnishing such calculations and evaluations based thereon, Halliburton is merely expressing its opinion. You agree that Halliburton makes no warranty, express or implied as to the accuracy of such calculations or opinions, and that Halliburton shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.

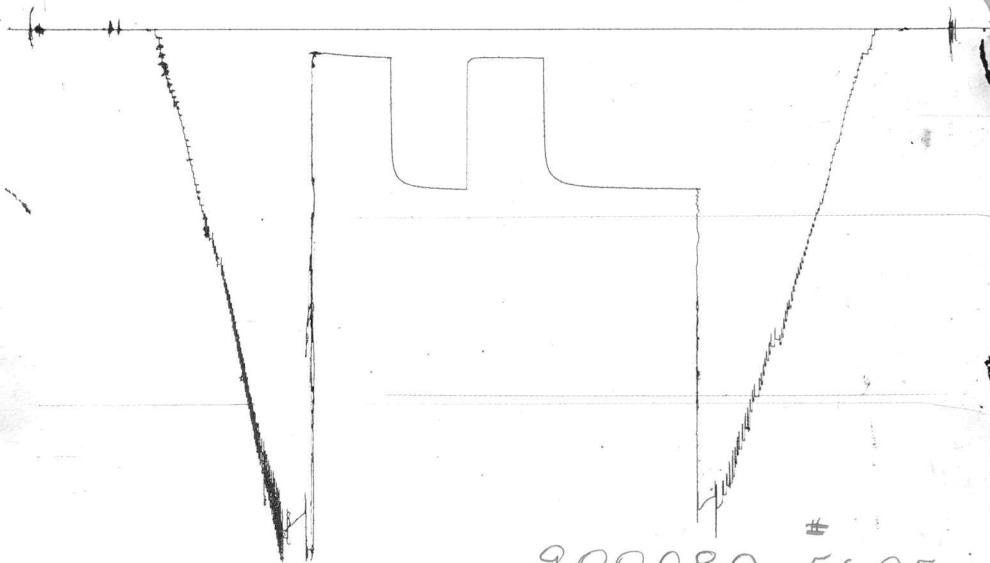


	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	6"	2.75"	1'	
Water Control Valve DRILL PIPE	4 1/2"	3.826"	4242'	
WEIGHT PIPE	4 1/2"	2.764"	630'	
Drill Pipe	6"	2.25"	90'	
Drill Collars	5.75"	3.75"	5'	
Handling Sub & Choke Assembly	5"	.87"	5'	4972'
Dual CIP Valve				
Dual CIP Sampler	5"	.75"	5'	4977'
Hydro-Spring Tester				
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4979'
Hydraulic Jar	5"	1.75"	5'	
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6.75"	1.53"	6'	4994'
Distributor				
Packer Assembly	6.75"	1.53"	6'	5000'
Flush Joint Anchor	5"	2.37"	48'	
Pressure Equalizing Tube TEMP RECORDER	5"	2.44"	2'	5051'
Blanked-Off B.T. Running Case	5"	2.44"	4'	5052'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				5056'

↑
PRESSURE
↓



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



900080-5605

900080-5605

TEMPERATURE
RECORDER
CHART



10° each circle