

13-225-12E

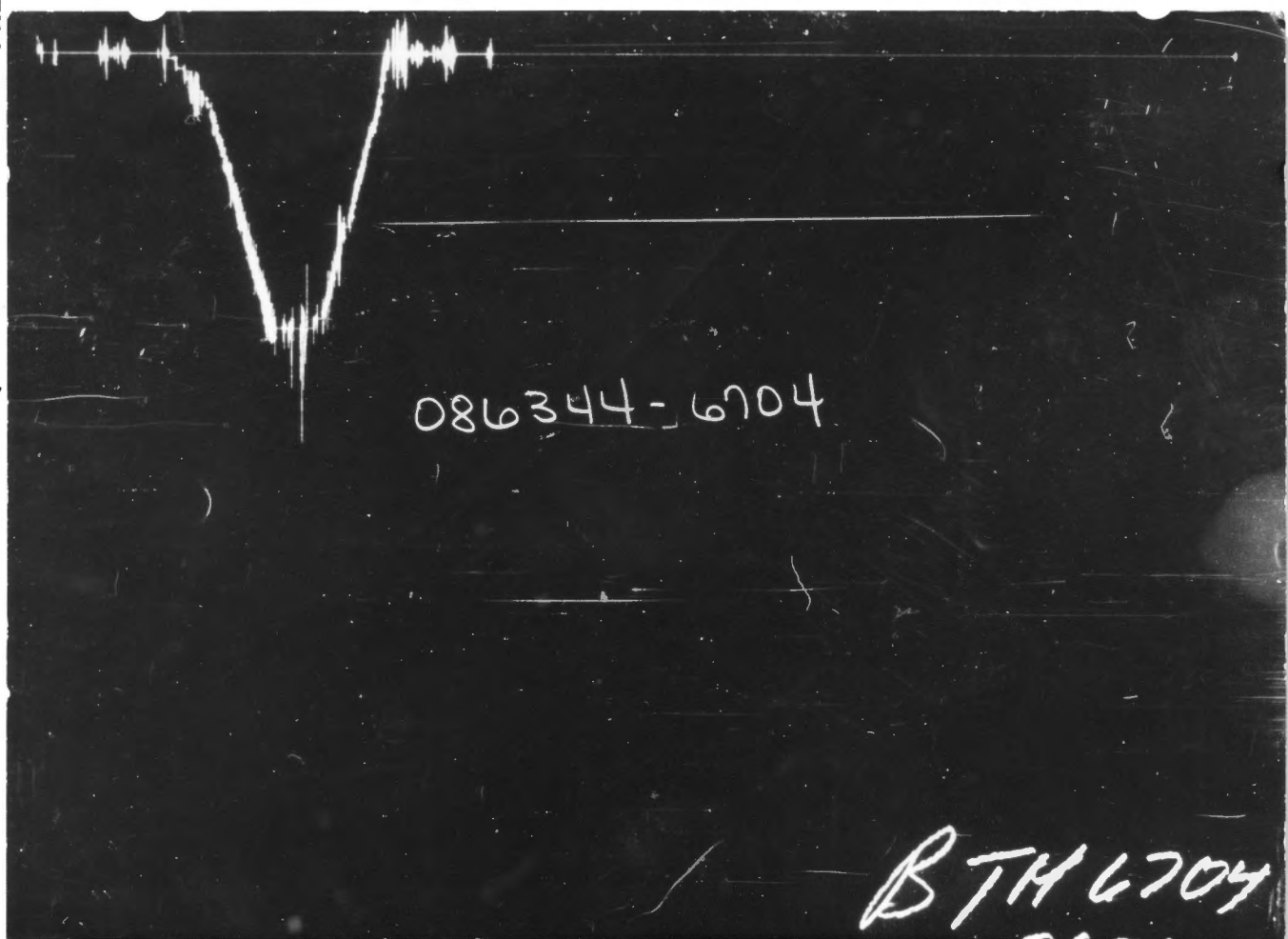
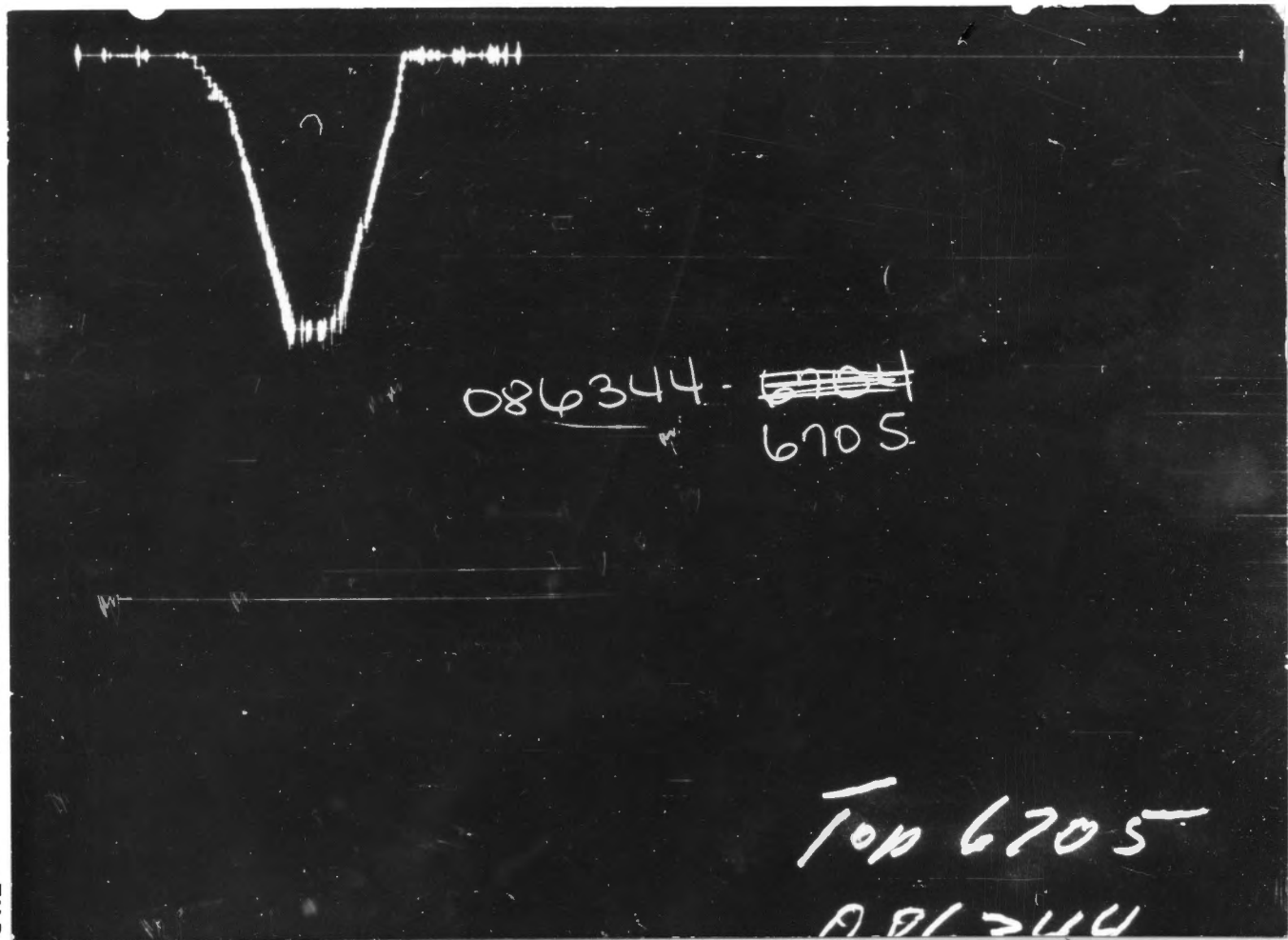
Legal Location Sec. - Twp. - Rng.	13 - 22 S - 12 E	Field Acre	LAMONT	County	GREENWOOD	State	KANSAS
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Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 086344
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing ... Change. Over	5"	2.25"	1'	
Reversing Sub	5"	2.25"	1'	
Water Cushion Valve	5"	2.25"	1'	
Drill Pipe	4 1/2"	3.826"		
Drill Collars	6 1/4"	2.25"	399'	
Handling Sub & Choke Assembly	5"	2.37"	4'	
Dual CIP Valve	5"	.87"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	
Hydraulic Jar				
VR Safety Joint	5"	1.00"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.68"	6'	
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
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	5"	2.37"	9'	
Blanked-Off B.T. Running Case	5"	2.44"	4'	
Total Depth				2275'



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

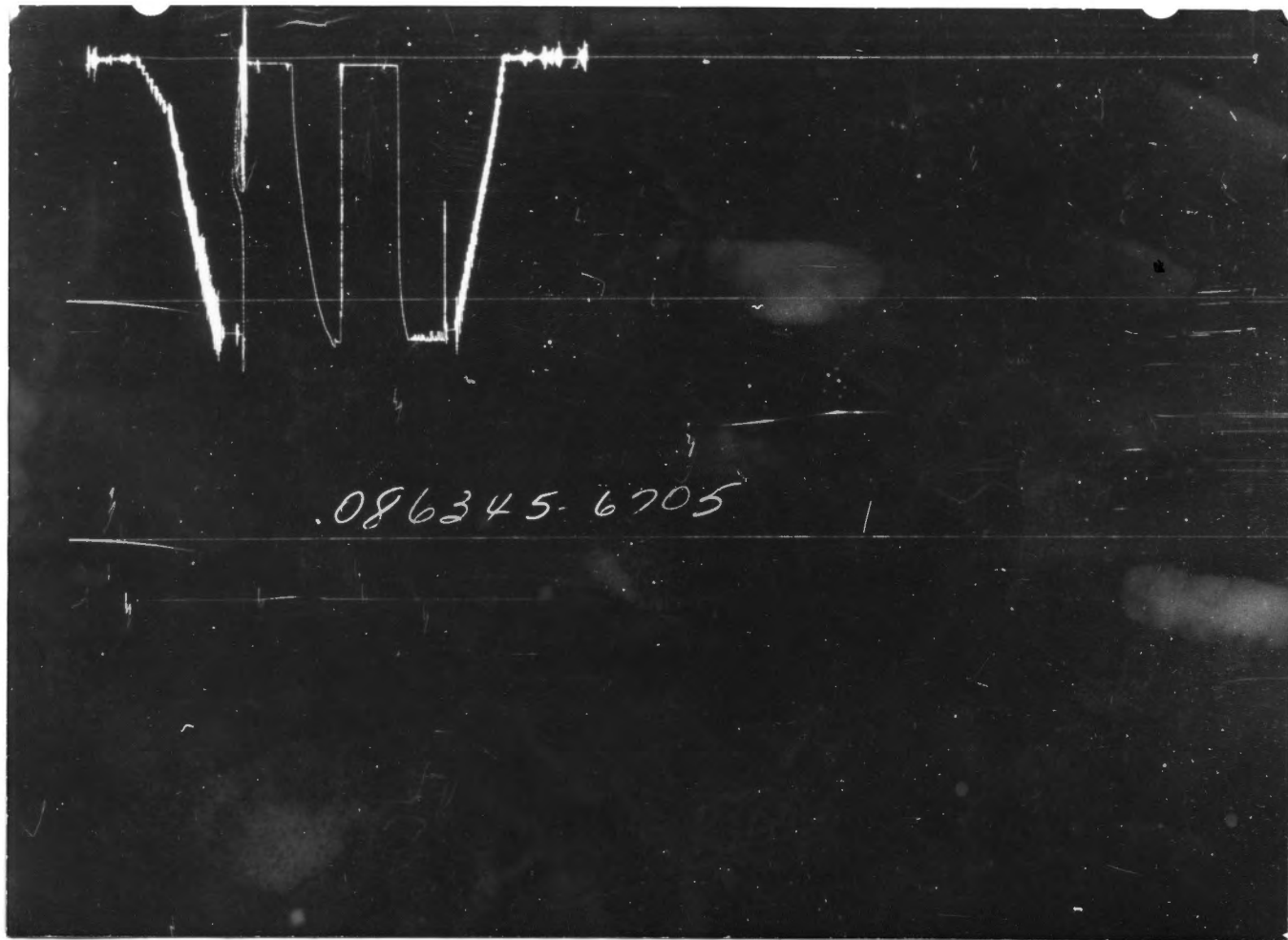
FLUID SAMPLE DATA				Date 5-15-76		Ticket Number 086345	
Sampler Pressure _____ P.S.I.G. at Surface				Kind of Job OPEN HOLE		Halliburton District EL DORADO	
Recovery: Cu. Ft. Gas _____				Tester W.O. SEGLEM		Witness MR. GLENN THRASHER	
cc. Oil _____				Drilling Contractor TRIANGLE DRILLING COMPANY SM			
cc. Water _____				EQUIPMENT & HOLE DATA			
cc. Mud _____				Formation Tested Viola			
Tot. Liquid cc. _____				Elevation 1203' Kelly bushing Ft.			
Gravity _____ ° API @ _____ ° F.				Net Productive Interval 2261-2275' Ft.			
Gas/Oil Ratio _____ cu. ft./bbl.				All Depths Measured From Kelly bushing			
RESISTIVITY _____ CHLORIDE CONTENT _____				Total Depth 2275' Ft.			
Recovery Water @ _____ ° F. _____ ppm				Main Hole/Casing Size 7 7/8"			
Recovery Mud @ _____ ° F. _____ ppm				Drill Collar Length 399' I.D. 2.25"			
Recovery Mud Filtrate @ _____ ° F. _____ ppm				Drill Pipe Length 1840' I.D. 3.826"			
Mud Pit Sample @ _____ ° F. _____ ppm				Packer Depth(s) 2261' Ft.			
Mud Pit Sample Filtrate @ _____ ° F. _____ ppm				Depth Tester Valve 2244' Ft.			
Mud Weight 9.7 vis 59 cp							
TYPE		AMOUNT		Depth Back Surface		Bottom	
Cushion				Ft. Pres. Valve		Choke .25" Choke .75"	
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Recovered		Feet of					
Remarks		SEE PRODUCTION TEST DATA SHEET.....MISRUN					
Never did get to bottom ...opened tool 20' off bottom and slid 5' with							
a weak blow throughout first opening. Blow died after 45 minutes of							
total opening.							
TEMPERATURE		Gauge No. 6705		Gauge No. 6704		Gauge No.	
Depth:		2249 Ft.		2272 Ft.		Ft.	
Est. 92 ° F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off no		Blanked Off yes		Blanked Off		Tool AxxX	
Actual ° F.		Pressures		Pressures		Opened 1:03 P.M.	
		Field Office		Field Office		Opened AxxX	
Initial Hydrostatic		1141		1150		Bypass 3:06 P.M.	
Flow Initial		18		Plugging		Reported	
Flow Final		28		Plugging		Minutes	
Closed in		1198		1334		30	
Flow Initial		29		Plugging		31	
Flow Final		33		Plugging		33	
Closed in		1170		1231		30	
Flow Initial							
Flow Final							
Closed in							
Final Hydrostatic		1127		1141			

Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 086345
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

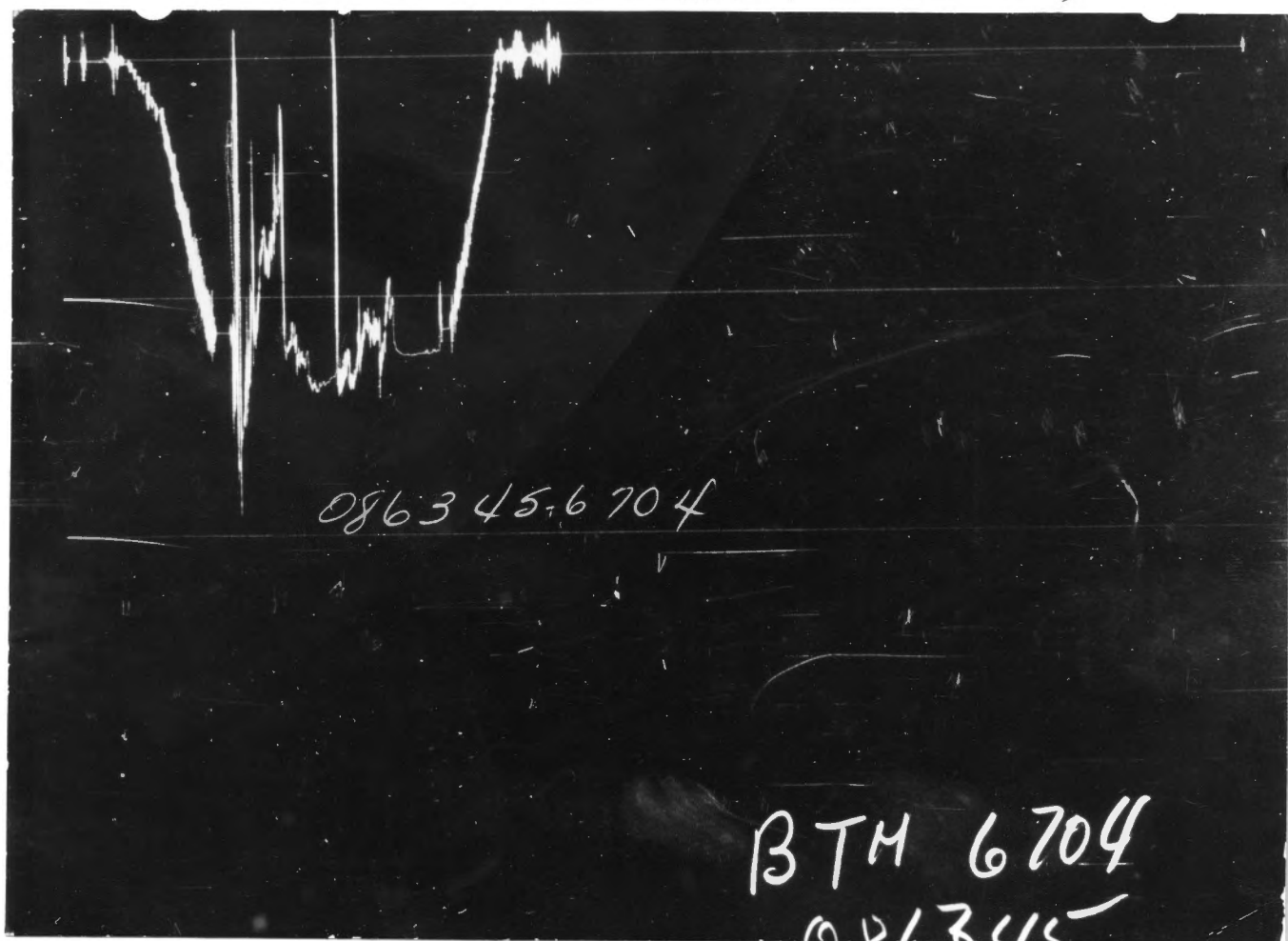
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	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing Change over	5"	2.25"	1'	
Reversing Sub	5"	2.25"	1'	
Change over	5"	2.25"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	1840'	
Drill Collars	6 1/4"	2.25"	399'	
Handling Sub & Choke Assembly	5"	2.37"	4'	
Dual CIP Valve	5"	.87"	5'	2239'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	2244'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	2249'
Hydraulic Jar				
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.68"	6'	2261'
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
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Packer Assembly				
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Side Wall Anchor				
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Blanked-Off B.T. Running Case	5"	2.44"	4'	2272'
Total Depth				2275'



PRESSURE

TIME



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

FLUID SAMPLE DATA				Date 5-16-76		Ticket Number 086346																																																																																																																																	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity _____ ° API @ _____ °F. Gas/Oil Ratio _____ cu. ft./bbl. RESISTIVITY CHLORIDE CONTENT				Kind of Job OPEN HOLE Halliburton District EL DORADO Tester MR. SEGLEM Witness MR. THRASHER Drilling Contractor TRIANGLE DRILLING COMPANY BC S		Legal Location Sec. - Twp. - Rng. 13 - 22S - 12E Lease Name BLANCH																																																																																																																																	
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">TEMPERATURE</th> <th colspan="2">Gauge No. 6705</th> <th colspan="2">Gauge No. 6704</th> <th colspan="2">Gauge No.</th> <th rowspan="2">TIME</th> </tr> <tr> <th>Depth: 2250' Ft.</th> <th></th> <th>Depth: 2273' Ft.</th> <th></th> <th>Depth: Ft.</th> <th></th> </tr> </thead> <tbody> <tr> <td>Est. 92 °F.</td> <td colspan="2">12 Hour Clock</td> <td colspan="2">12 Hour Clock</td> <td colspan="2">Hour Clock</td> <td>Tool A.M.</td> </tr> <tr> <td></td> <td colspan="2">Blanked Off NO</td> <td colspan="2">Blanked Off YES</td> <td colspan="2">Blanked Off</td> <td>Opened 11:07 P.M.</td> </tr> <tr> <td>Actual °F.</td> <td colspan="2">Pressures</td> <td colspan="2">Pressures</td> <td colspan="2">Pressures</td> <td>Opened 1:07 A.M.</td> </tr> <tr> <td></td> <td>Field</td> <td>Office</td> <td>Field</td> <td>Office</td> <td>Field</td> <td>Office</td> <td>Bypass P.M.</td> </tr> <tr> <td>Initial Hydrostatic</td> <td></td> <td>1138</td> <td>1157</td> <td>1153</td> <td></td> <td></td> <td>Reported Minutes</td> </tr> <tr> <td rowspan="3">First Period Flow</td> <td>Initial</td> <td>55</td> <td>71</td> <td>69</td> <td></td> <td></td> <td>Computed Minutes</td> </tr> <tr> <td>Final</td> <td>57</td> <td>73</td> <td>70</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Closed in</td> <td>533</td> <td>554</td> <td>545</td> <td></td> <td></td> <td>30 31</td> </tr> <tr> <td rowspan="3">Second Period Flow</td> <td>Initial</td> <td>58</td> <td>73</td> <td>70</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final</td> <td>61</td> <td>84</td> <td>74</td> <td></td> <td></td> <td>30 36</td> </tr> <tr> <td>Closed in</td> <td>448</td> <td>460</td> <td>461</td> <td></td> <td></td> <td>30 29</td> </tr> <tr> <td rowspan="3">Third Period Flow</td> <td>Initial</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Closed in</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Final Hydrostatic</td> <td></td> <td>1117</td> <td>1132</td> <td>1128</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								TEMPERATURE	Gauge No. 6705		Gauge No. 6704		Gauge No.		TIME	Depth: 2250' Ft.		Depth: 2273' Ft.		Depth: Ft.		Est. 92 °F.	12 Hour Clock		12 Hour Clock		Hour Clock		Tool A.M.		Blanked Off NO		Blanked Off YES		Blanked Off		Opened 11:07 P.M.	Actual °F.	Pressures		Pressures		Pressures		Opened 1:07 A.M.		Field	Office	Field	Office	Field	Office	Bypass P.M.	Initial Hydrostatic		1138	1157	1153			Reported Minutes	First Period Flow	Initial	55	71	69			Computed Minutes	Final	57	73	70				Closed in	533	554	545			30 31	Second Period Flow	Initial	58	73	70				Final	61	84	74			30 36	Closed in	448	460	461			30 29	Third Period Flow	Initial							Final							Closed in							Final Hydrostatic		1117	1132	1128			
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Casing perms. _____ Bottom choke _____ Surf. temp. _____ °F Ticket No. 086346
Gas gravity _____ Oil gravity _____ GOR _____
Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED.

[illegible]

Gauge No. 6705			Depth 2250'			Clock No. 7101			12 hour		Ticket No. 086346						
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"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"		PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"		PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	PSIG Temp. Corr.
0	.0000	55	.0000		57	.0000		58	.0000		61						
1	.2100	57	.0200		189	.2430		61	.0131		130*						
2			.0400		267				.0328		200						
3			.0600		331				.0524		252						
4			.0800		376				.0721		301						
5			.1000		415				.0917		334						
6			.1200		447				.1114		363						
7			.1400		474				.1310		389						
8			.1600		499				.1507		412						
9			.1800		520				.1703		432						
10			.2000		533				.1900		448						
11																	
12																	
13																	
14																	
15																	

Gauge No.		6704		Depth		2273'		Clock No.		7047		12 hour			
0	.0000	69	.0000		70	.0000		.0000		74					
1	.2110	70	.0204		201	.2450		.0134		141*					
2			.0408		280			.0334		212					
3			.0612		343			.0535		266					
4			.0816		383			.0736		313					
5			.1020		425			.0937		347					
6			.1224		458			.1137		376					
7			.1428		486			.1338		402					
8			.1632		511			.1539		426					
9			.1836		532			.1739		446					
10			.2040		545			.1940		461					
11															
12															
13															
14															
15															
Reading Interval			3			3			3			Minutes			

	O. D.	I. D.	LENGTH	DEPTH
 Drill Pipe or Tubing Change over...	5"	2.25"	1'	
 Reversing Sub	5"	2.25"	1'	
 Water-Cushion Valve Change over	5"	2.25"	1'	
 Double Pin...	5"	2.25"	1'	
 Drill Pipe	4 1/2"	3.826"	1840'	
 Drill Collars	6 1/4"	2.25"	399'	
 Handling Sub & Choke Assembly	5"	2.37"	4'	
 Dual CIP Valve	5"	.87"	5'	2240'
 Dual CIP Sampler				
 Hydro-Spring Tester	5"	.75"	5'	2245'
 Multiple CIP Sampler				
 Extension Joint				
 AP Running Case	5"	3.06"	4'	2250'
 Hydraulic Jar				
 VR Safety Joint	5"	1"	3'	
 Pressure Equalizing Crossover				
 Packer Assembly	6 3/4"	1.68"	6'	2262'
 Distributor				
 Packer Assembly				
 Flush Joint Anchor				
 Pressure Equalizing Tube				
 Blanked-Off B.T. Running Case				
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Blanked-Off B.T. Running Case	5"	2.44"	4'	2273'
Total Depth				2277'

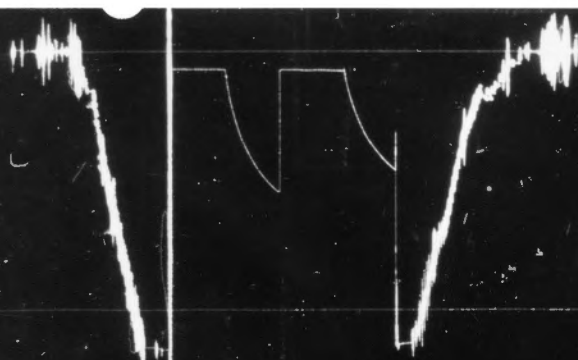


086346-6705

BT 6705
Top

PRESSURE

TIME



086346-6704

BT 6704
Bottom

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