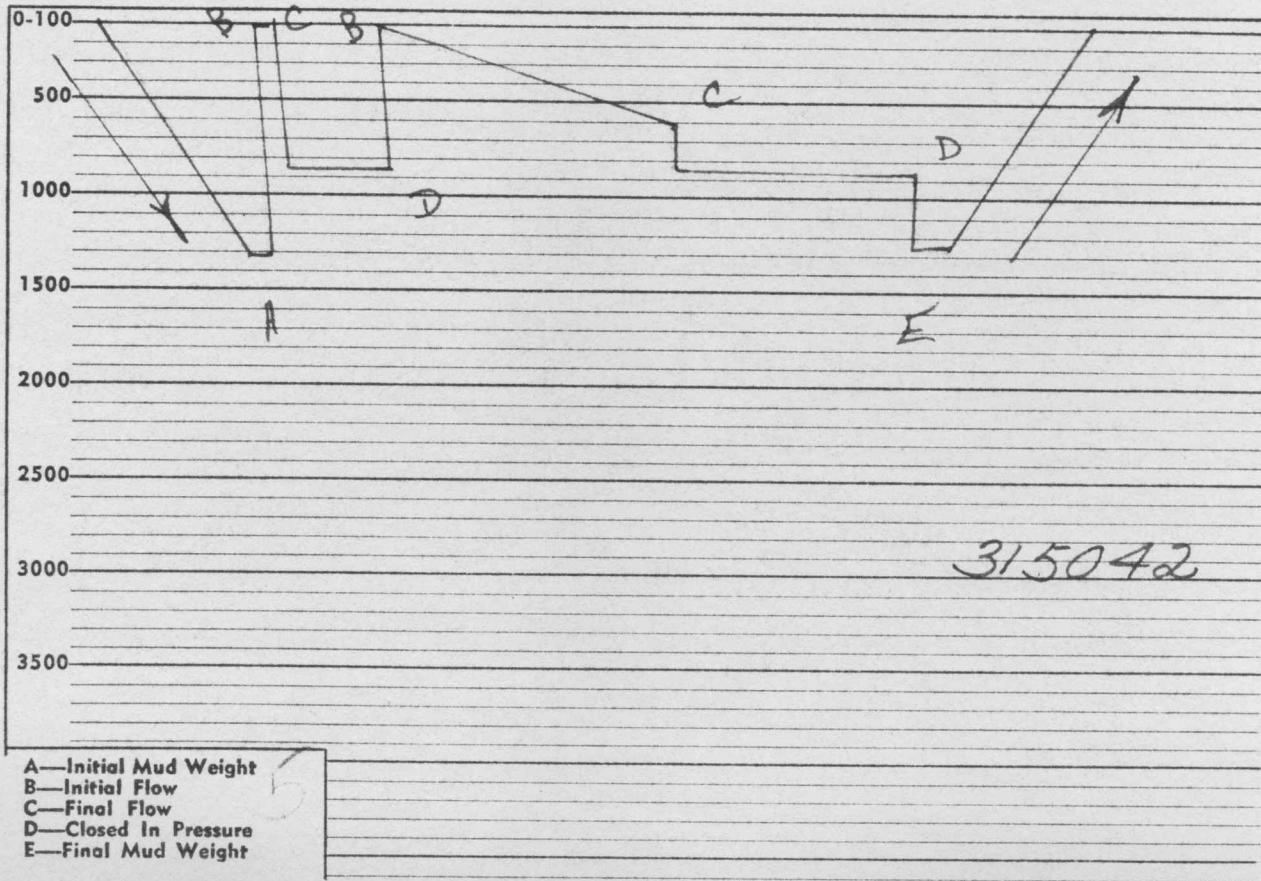


Initial Closed In Time 30 Minutes			Date 5-30-61		LOCATION SEC. 20-263-5E FIELD SW EL DORADO COUNTY BUTTES STATE KANSAS
Tool Open 1st 5 / 2nd 60 Minutes			Ticket No. 315042		
Final Closed In Time 60 Minutes			Halliburton District El Dorado		
Depth Top Gauge 2562 Ft. Blanked Off no			Kind of Job Open Hole		
BT. P.R.D. No 585 12 Hr. Clock		CONTRACTOR White & Ellis Drilling Co.			
Pressure Readings Field Office Corrected		HOLE & TOOL DATA			
Initial Hydro Mud Pressure NO READINGS ARE		Elevation 1327'-KB		Top Packer Depth 2570'	
Initial Closed in Pres. AVAILABLE. TESTER		Total Depth 2589'		Bottom Packer Depth 2578'	
Initial Flow Pres. FAILED TO ASSEMBLE		Casing or Hole Size 7 7/8"		Size & Type Wall Packer 6 3/4" ESWP	
Final Flow Pres. PROPERLY.		Liner or Rathole Size 7 7/8"		Size Bottom Choke 3/4"	
Final Closed in Pres. 870		Casing Perforations Top Bottom		Size Surface Choke 1"	
Final Hydro Mud Pressure 1290		Interval Tested 2578'-2589'		ID & Length Air Chamber DCIP	
Depth Center Gauge 2585 Ft. Blanked Off yes		Formation Tested Arbuckle		ID & Length Drill Collars 90 x 2 1/2"	
BT. P.R.D. No 1689 - Hr. Clock		Est. Gauge Depth Temp. C-100 F°		Size Drill Pipe 3 1/2" IF	
Pressure Readings Field Office Corrected		MUD DATA Weight 9.8		Viscosity 36	
Initial Hydro Mud Pressure 1310 1305		All depths measured from Kelly Pushing		No...Folders Reproduced 5	
Initial Closed in Pres. 892 890		REMARKS: On bottom at 5:13. Opened tool for 5			
Initial Flow Pres. 89 0-100		minute first flow at 5:16 with very strong			
Final Flow Pres. 600 600		blow. Rotated tool for 30 minute initial			
Final Closed in Pres. 870 870		closed in pressure at 5:21. Reopened tool			
Final Hydro Mud Pressure 1290 1290		at 5:51 for 60 minute test with very strong			
Depth Bottom Gauge Ft. Blanked Off		blow continuing throughout test. Closed in			
BT. P.R.D. No Hr. Clock		tool at 6:51 for 60 minute final closed in			
Pressure Readings Field Office Corrected		pressure. Released at 7:51.			
Initial Hydro Mud Pressure		Readings from P.R.D. NO SPECIAL READING ADAPTABLE			
Initial Closed in Pres.		Recovered 1650 Feet of free oil			
Initial Flow Pres.		Recovered 75 Feet of very heavy oil cut mud			
Final Flow Pres.		Recovered Feet of			
Final Closed in Pres.		Recovered Feet of			
Final Hydro Mud Pressure		Witnessed By W. Morris			
Amount-Type of Cushion none		Tester L. J. Cline			

↑
PRESSURE
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315042

← TIME →



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

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

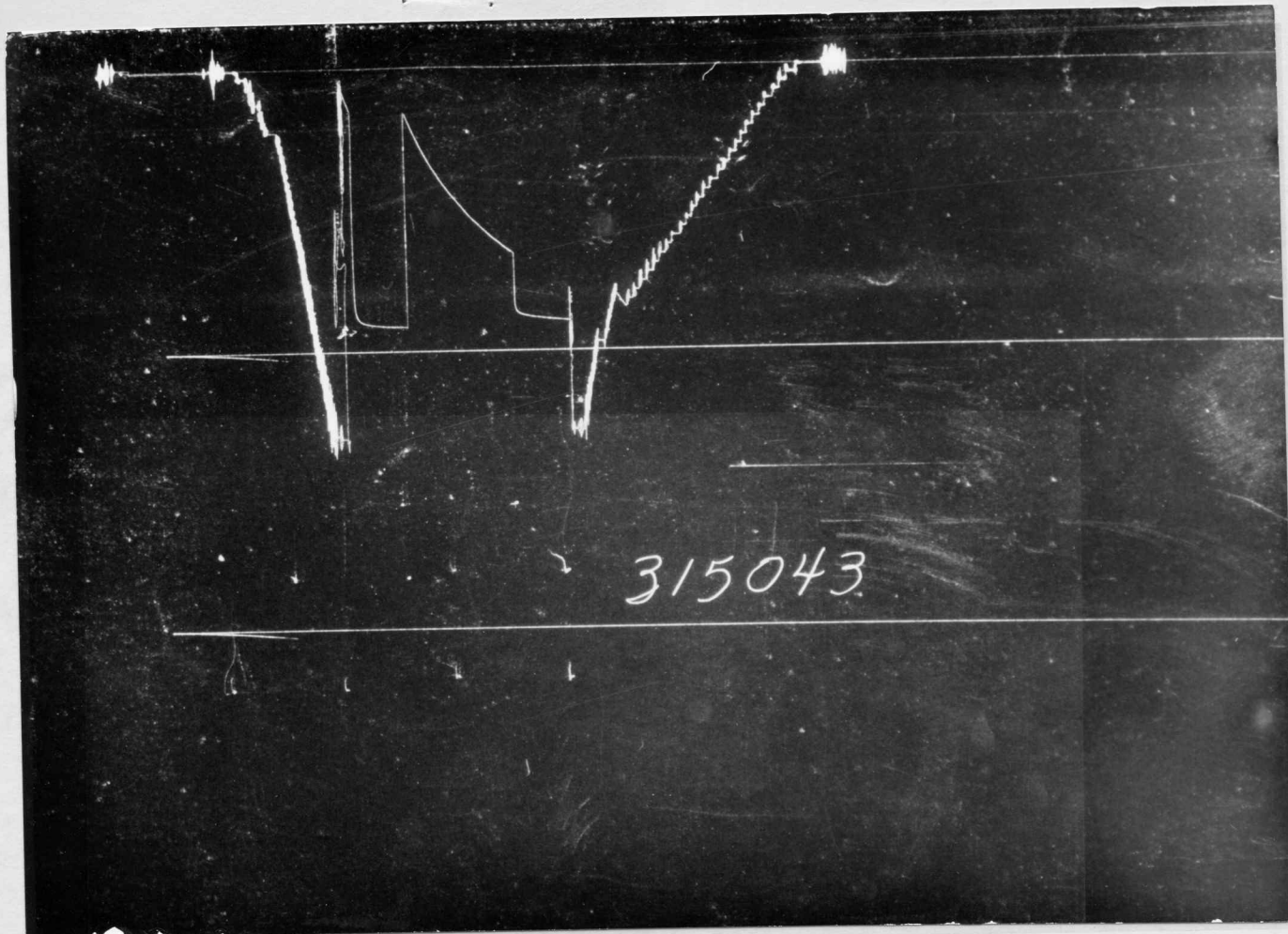
Initial Closed In Time 30 Minutes				Date 5-31-61		LOCATION SEC. 20-26S-5E FIELD SW EL DORADO COUNTY BUTTES STATE KANSAS
Tool Open Flow Period 1st 5 / 2nd 60 Minutes				Ticket No. 315043		
Final Closed In Time 30 Minutes				Halliburton District El Dorado, Ks.		
Depth Top Gauge 2584 Ft. Blanked Off no				Kind of Job Open Hole		
BT. P.R.D. No 585 12 Hr. Clock			CONTRACTOR White & Ellis Drilling Co.			
Pressure Readings Field Office Corrected			HOLE & TOOL DATA			
Initial Hydro Mud Pressure 1322 1302			Elevation 1327' KB		Top Packer Depth 2592'	
Initial Closed in Pres. 924 917			Total Depth 2610'		Bottom Packer Depth 2600'	
Initial Flow Pres. 117 62-160			Casing or Hole Size 7 7/8"		Size & Type Wall Packer 6 3/4" ESWP	
Final Flow Pres. 655 151-661			Liner or Rathole Size 7 7/8"		Size Bottom Choke 3/4"	
Final Closed in Pres. 897 897			Casing Perforations Top Bottom		Size Surface Choke 1"	
Final Hydro Mud Pressure 1284 1286			Interval Tested 2600-2610'		ID & Length Air Chamber DCIP	
Depth Center Gauge 2606 Ft. Blanked Off yes			Formation Tested Arbuckle		ID & Length Drill Collars 120' x 2 1/4"	
BT. P.R.D. No 1689 12 Hr. Clock			Est. Gauge Depth Temp. Actual 96 F°		Size Drill Pipe 3 1/2" IF	
Pressure Readings Field Office Corrected			MUD DATA Weight 9.9		Viscosity 40	
Initial Hydro Mud Pressure			All depths measured from Kelly Rushing		No...Folders Reproduced 5	
Initial Closed in Pres.			REMARKS: On bottom at 5:02. Opened tool at			
Initial Flow Pres.			5:05 with very strong blow. Closed in tool			
Final Flow Pres.			at 5:10 for 30 minute initial closed in pres-			
Final Closed in Pres.			sure. Reopened tool at 5:40 with very strong			
Final Hydro Mud Pressure			blow diminishing to fair blow throughout test			
Depth Bottom Gauge Ft. Blanked Off			Closed in tool at 6:40 for 30 minute final			
BT. P.R.D. No Hr. Clock			closed in pressure. Released at 7:10			
Pressure Readings Field Office Corrected						
Initial Hydro Mud Pressure						
Initial Closed in Pres.			Recovered 1466 Feet of free gassy oil			
Initial Flow Pres.			Recovered 93 Feet of very heavy oil cut mud			
Final Flow Pres.			Recovered 186 Feet of muddy oily water			
Final Closed in Pres.			Recovered Feet of			
Final Hydro Mud Pressure			Witnessed By W. Morris			
Amount-Type of Cushion none			Tester L. J. Cline			

		Time	PSI		
Initial Hydro Mud Pressure			1302	DATE <u>5-31-61</u>	
1st	Initial Flow		62	TICKET NO. <u>315043</u>	
	Final Flow	5 min.	151	LEASE <u>KOOGLER</u>	
Initial Closed In Pressure		30 min.	917		
2nd	Initial Flow		160	Well No. <u>289</u> Test No. <u>2</u>	
	Final Flow	60 min.	661	BT No. <u>585</u> Depth <u>2584'</u>	
Final Closed In Pressure		30 min.	897	<u>12</u> Hr. Clock	
Final Hydro Mud Pressure			1286	Temp. Corr. <u>Act. 96</u> ° F	

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
P0	.000	62	.000	151	.000	160	.000	661
P1	.007	84	.0214	888	.1068	350	.022	871
P2	.014	103	.0428	902	.2136	482	.044	878
P3	.021	119	.0642	907	.3204	582	.066	882
P4	.028	134	.0856	910	.427	661	.088	885
P5	.035	151	.1070	911	.		.110	887
P6	.		.1284	913	.		.132	890
P7	.		.1498	914	.		.154	892
P8	.		.1712	915	.		.176	893
P9	.		.1926	916	.		.198	895
P10	.		.214	917	.		.220	897
	1	Minute Intervals	3	Minute Intervals	15	Minute Intervals	3	Minute Intervals

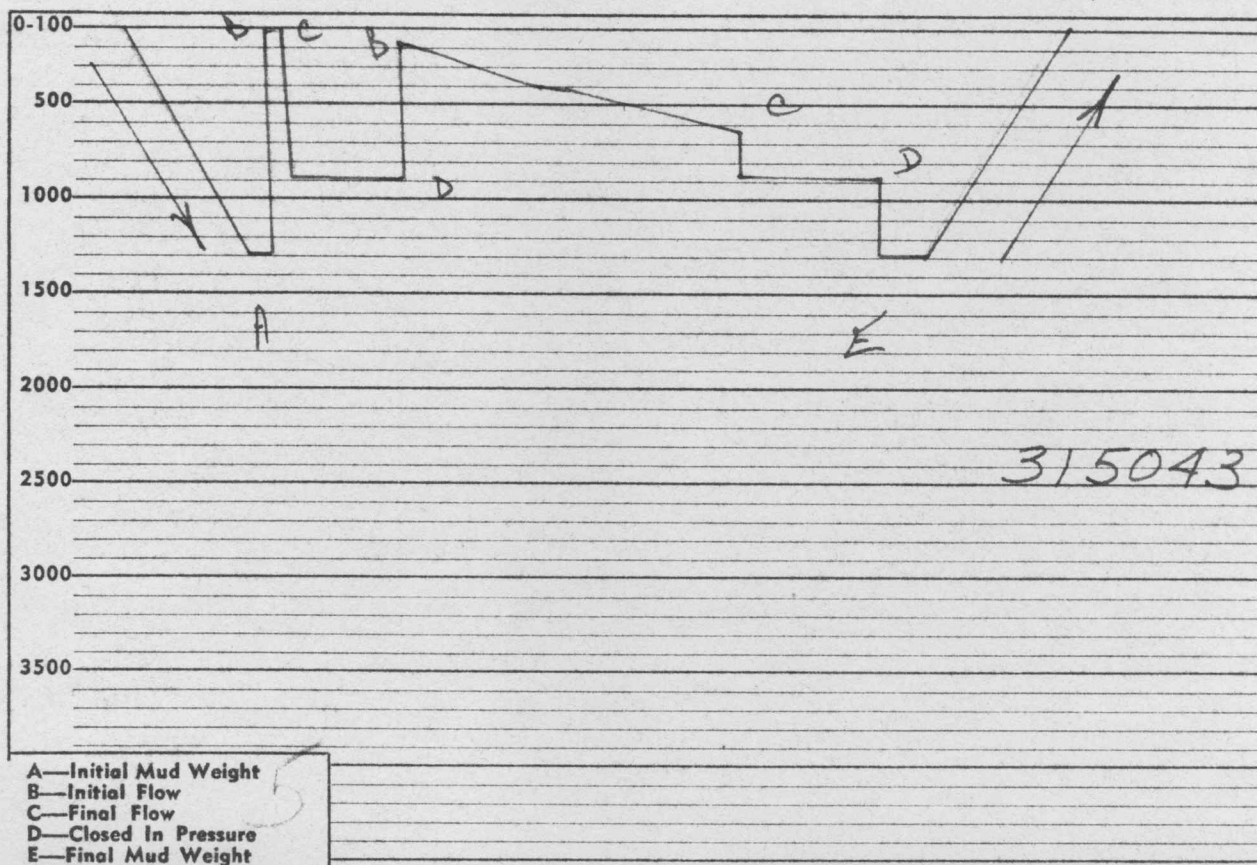
Remarks: _____

↑
PRESSURE
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315043

← 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 5-31-61		LOCATION SEC. 20-26S-5E FIELD SW. ELDORADO COUNTY BUTTES STATE KANSAS
Tool Open 1st 5 / 2nd 60 Minutes			Ticket No. 315044		
Final Closed In Time 30 Minutes			Halliburton District El Dorado, Ks.		
Depth Top Gauge 2609 Ft. Blanked Off no			Kind of Job Open Hole		
BT. P.R.D. No 585 12 Hr. Clock		CONTRACTOR White & Ellis Drilling Co.			
Pressure Readings Field Office Corrected		HOLE & TOOL DATA			
Initial Hydro Mud Pressure 1307 1304		Elevation 1327' KB		Top Packer Depth 2617'	
Initial Closed in Pres. 942 938		Total Depth 2640'		Bottom Packer Depth 2625'	
Initial Flow Pres. 18 18-64		Casing or Hole Size 7 7/8"		Size & Type Wall Packer 6 3/4" ESWP	
Final Flow Pres. 305 47-307		Liner or Rathole Size 7 7/8"		Size Bottom Choke 3/4"	
Final Closed in Pres. 922 926		Casing Perforations Top Bottom		Size Surface Choke 1"	
Final Hydro Mud Pressure 1292 1293		Interval Tested 2625'-2640'		ID & Length Air Chamber DCIP	
Depth Center Gauge 2646 Ft. Blanked Off yes		Formation Tested Arbuckle		ID & Length Drill Collars 120' x 2 1/2"	
BT. P.R.D. No 1689 12 Hr. Clock		Est. Gauge Depth Temp. Actual 96 F°		Size Drill Pipe 3 1/2" IF	
Pressure Readings Field Office Corrected		MUD DATA Weight 9.6		Viscosity 41	
Initial Hydro Mud Pressure		All depths measured from Kelly Bushing		No...Folders Reproduced 5	
Initial Closed in Pres.		REMARKS: On bottom at 6:39. Opened tool at			
Initial Flow Pres.		6:42 with good blow. Closed tool for 30 min			
Final Flow Pres.		initial closed in pressure at 6:47. Reopened			
Final Closed in Pres.		tool for 60 minute test with good steady blow			
Final Hydro Mud Pressure		at 7:17. Closed in tool 8:17 for 30 minute			
Depth Bottom Gauge Ft. Blanked Off		final closed in pressure. Released at 8:47			
BT. P.R.D. No Hr. Clock					
Pressure Readings Field Office Corrected					
Initial Hydro Mud Pressure					
Initial Closed in Pres.		Recovered 808 Feet of muddy sulphur 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 W. Morris			
Amount-Type of Cushion none		Tester L. J. Cline			

COMPANY

CITIES SERVICE PETROLEUM COMPANY

		Time	PSI		
Initial Hydro Mud Pressure			1304	DATE	5-31-61
1st	Initial Flow		18	TICKET NO.	315044
	Final Flow	5 min.	47	LEASE	KOOGLER
Initial Closed In Pressure		30 min.	938		
2nd	Initial Flow		64	Well No.	289
	Final Flow	60 min.	307	Test No.	3
Final Closed In Pressure		30 min.	926	BT No.	585
Final Hydro Mud Pressure			1293	Depth	2609'
				12 Hr. Clock	
				Temp. Corr.	Act. 96 ° F

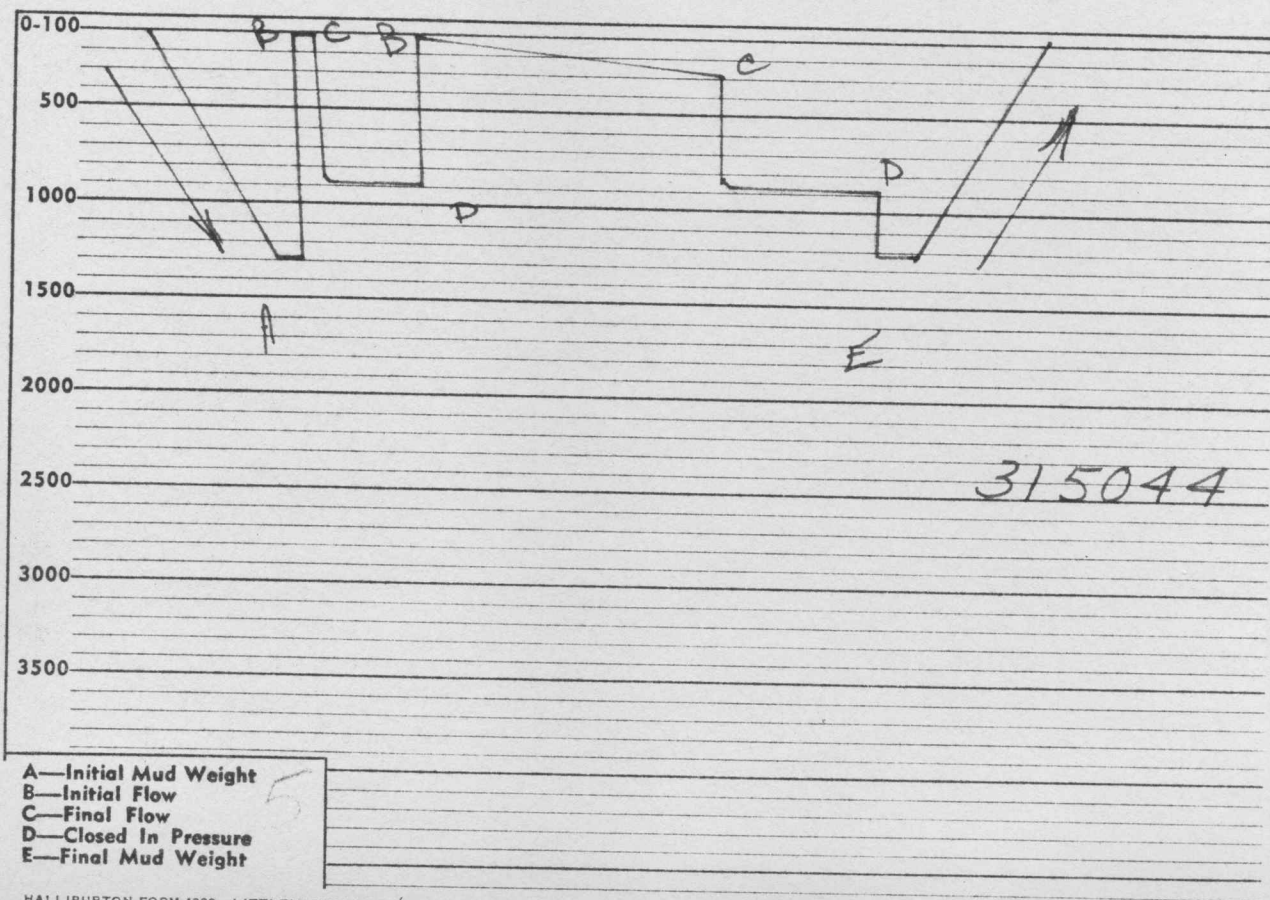
	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time	PSI	Time	PSI	Time	PSI	Time	PSI
P0	.000	18	.000	47	.000	64	.000	307
P1	.005	23	.0227	922	.106	128	.0219	893
P2	.010	31	.0454	932	.212	193	.0438	910
P3	.015	37	.0681	934	.318	251	.0657	914
P4	.020	43	.0908	936	.424	307	.0876	918
P5	.025	47	.1135	936	.		.1095	919
P6	.		.1362	936	.		.1314	922
P7	.		.1589	936	.		.1533	922
P8	.		.1816	937	.		.1752	923
P9	.		.2043	937	.		.1971	925
P10	.		.227	938	.		.219	926
	1	Minute Intervals	3	Minute Intervals	15	Minute Intervals	3	Minute Intervals

Remarks:

↑
PRESSURE
↓

315044

← TIME →



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

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