

UNBEH

LEASE NAME

WELL NO.

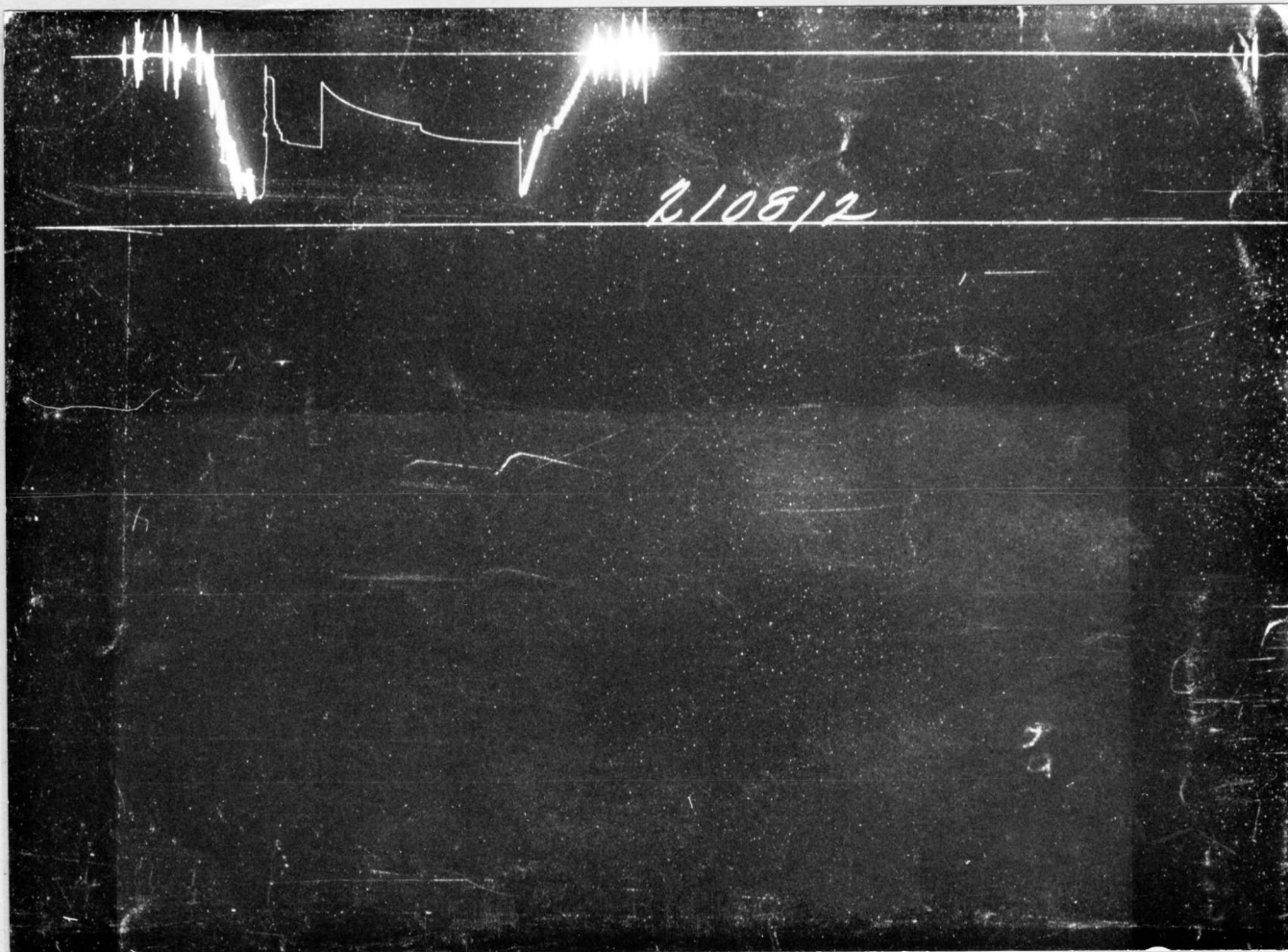
TEST NO.

CITIES SERVICE OIL COMPANY

LEASE OWNER

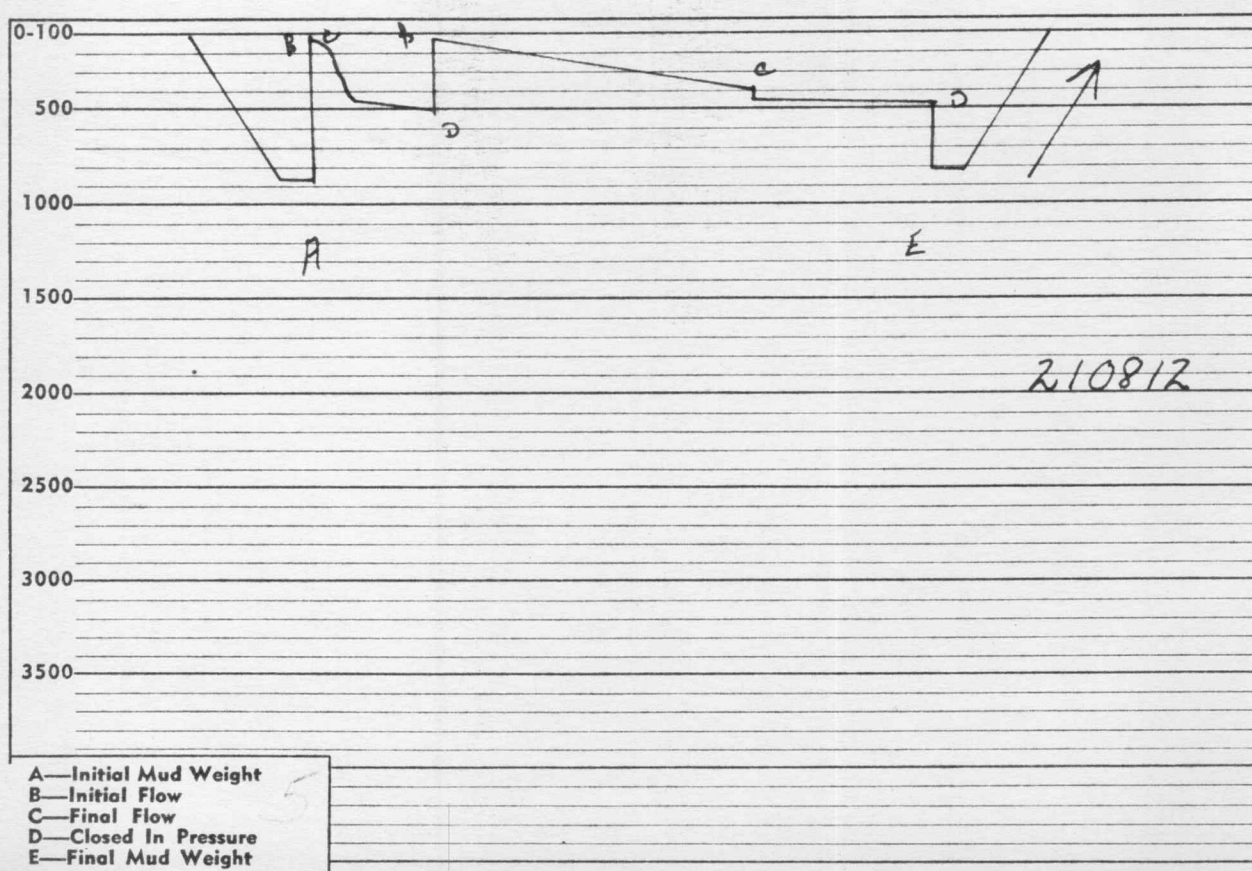
MADISON 31-11-92
OWNERS DISTRICT

Initial Closed In Time 30 Minutes				Date 11-8-59	
Tool Open 1st 5 / 2nd 60 Minutes				Ticket No. 210812	
Final Closed In Time 60 Minutes				HOWCO DISTRICT El Dorado, Kansas	
Depth Top Gauge 1643 Ft.		Blanked Off no		Kind of Job Open Hole	
BT. P.R.D. No 396		12 Hr. Clock		CONTRACTOR WHITE AND ELLIS DRILLING COMPANY	
Pressure Readings Field		Office Corrected		HOLE & TOOL DATA	
Initial Hydro Mud Pressure 835		834		Elevation 1340 K. B. Top Packer Depth 1641'	
Initial Closed in Pres. 540		544		Total Depth 1666' Bottom Packer Depth-	
Initial Flow Pres. 165		121-160		Casing or Hole Size 8 3/4" Size & Type Wall Packer 7 1/2" ESWP	
Final Flow Pres. 405		141-413		Liner or Rathole Size 8 3/4" Size Bottom Choke 3/4"	
Final Closed in Pres. 525		524		Casing Perforations Top Bottom Size Surface Choke "	
Final Hydro Mud Pressure		802		Interval Tested 1641-1666' ID & Length Air Chamber -	
Depth Center Gauge 1662 Ft.		Blanked Off yes		Formation Tested Hunton ID & Length Drill Collars 8 1/4' x 2 1/4"	
BT. P.R.D. No 1510		12 Hr. Clock		Est. Gauge Depth Temp. Actual 82° 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: Tool opened for 5 minutes first	
Initial Flow Pres.				flow. Rotated tool for 30 Minutes Initial	
Final Flow Pres.				closed in pressure. Tool opened with a	
Final Closed in Pres.				strong blow decreasing to a fair blow at	
Final Hydro Mud Pressure				end of test.	
Depth Bottom Gauge Ft.		Blanked Off			
BT. P.R.D. No		Hr. Clock			
Pressure Readings Field		Office Corrected			
Initial Hydro Mud Pressure					
Initial Closed in Pres.				Recovered 485 Feet of clean oil	
Initial Flow Pres.				Recovered 330 Feet of mud cut oil	
Final Flow Pres.				Recovered 150 Feet of oil cut mud	
Final Closed in Pres.				Recovered Feet of	
Final Hydro Mud Pressure				Warren Morris	
Amount-Type of Cushion				Witnessed By	
				Tester W.L. Gasperson	



PRESSURE

TIME



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

HOWCO 1363—LITTLE'S 59248 5M 5/59

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

Company

CITIES SERVICE OIL COMPANY

Date

11-8-59

	Time	PSI	
Initial Hydro Mud Pressure		834	Ticket No. 210812
1st Initial Flow		121	
	Final Flow	5 Minutes	141
Initial Closed In Pressure	30 Minutes	544	Well No. 1 Test No. 1
2nd Initial Flow		160	BT No. 396 Depth 1643'
	Final Flow	60 Minutes	413
Final Closed In Pressure	60 Minutes	524	Temperature Corrected to Actual 82 ° F
Final Hydro Mud Pressure		802	

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.
PO	.000	121			.000	160	.000	413
P1	.030	141			.100	286	.040	467
P2					.200	344	.080	485
P3					.300	386	.120	496
P4					.400	413	.160	503
P5							.200	510
P6							.240	515
P7							.280	518
P8							.320	519
P9							.360	522
P10							.400	524
	Minute Intervals		Minute Intervals		15	Minute Intervals	3	Minute Intervals

Remarks:

UNREHE

LEASE NAME

WELL NO.

TEST NO.

CITIES SERVICE OIL COMPANY

MADISON

OWNERS DISTRICT

LOCATION

SEC 30 11S 9E

FIELD

YACGE

COUNTY

RILEY

STATE

KANSAS



Date 11-9-59
Ticket No. 210813
HOWCO DISTRICT El Dorado
Kind of Job Open Hole

CONTRACTOR WHITE & ELLIS DRILLING COMPANY

HOLE & TOOL DATA

Elevation 1340' KB Top Packer Depth -
Total Depth 1685' Bottom Packer Depth 1665'
Casing or Hole Size 8 3/4" Size & Type Wall Packer 7 1/4"
Liner or Rathole Size 8 3/4" Size Bottom Choke 3/4"
Casing Perforations Top Bottom Size Surface Choke 1"
Interval Tested 1665-1685' ID & Length Air Chamber -
Formation Tested Hunton ID & Length Drill Collars 84' x 2 1/4"
Est. Gauge Depth Temp. Actual 82 F° Size Drill Pipe 3 1/2" IF
MUD DATA Weight 9.5 Viscosity 37
All depths measured from Kelly Bushing No...Folders Reproduced

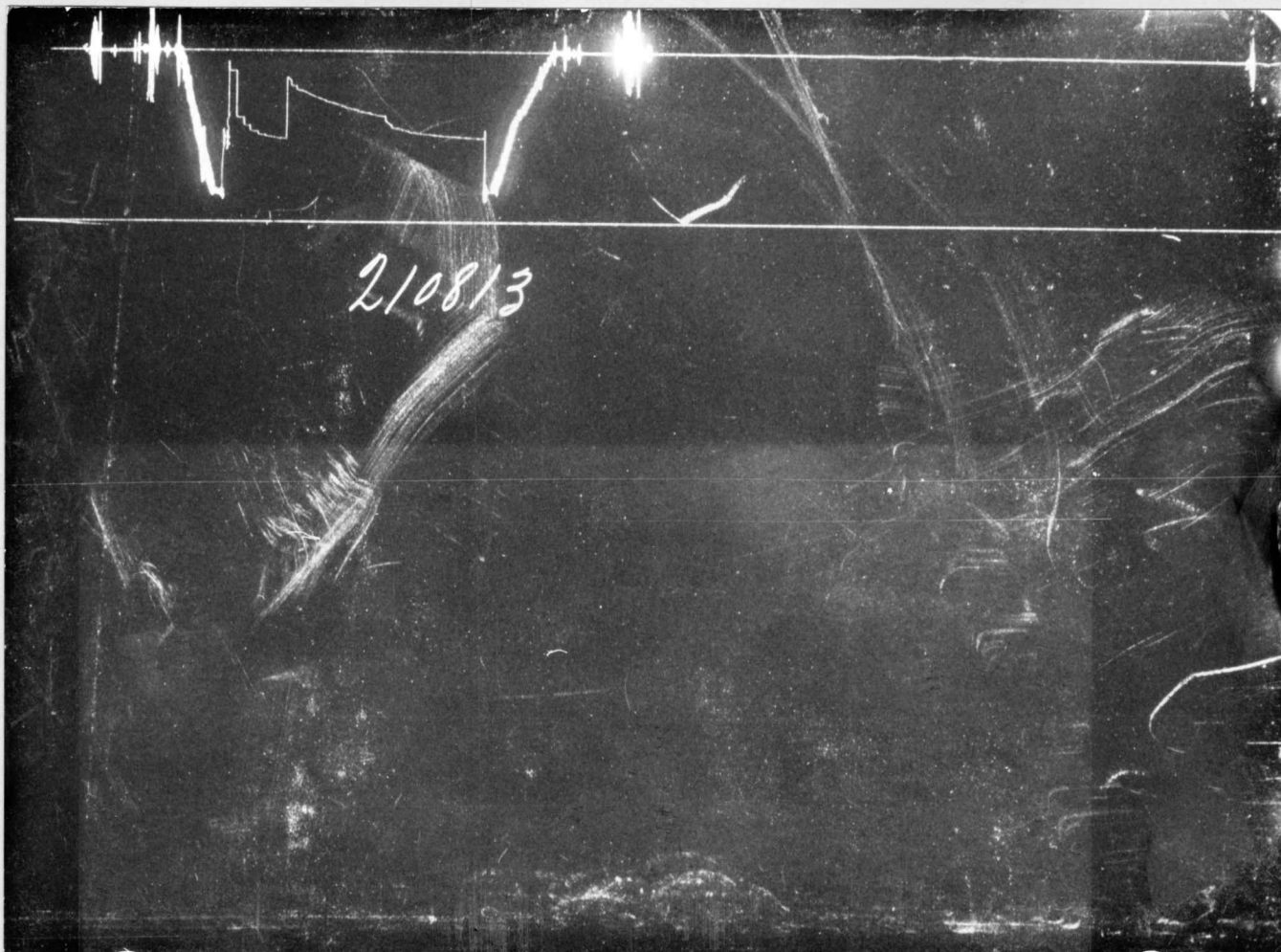
REMARKS: Tool opened for a 5 minute First Flow. Rotated tool for a 30 minute Initial Closed in Pressure. Tool re-opened with a fair blow decreasing to a weak blow at the end of 1 hour. Took a 30 minute Final Closed in Pressure.

Recovered 886 Feet of clean oil
Recovered 10 Feet of mud cut oil
Recovered 60 Feet of drilling muc
Recovered Feet of

Witnessed By Warren Morris

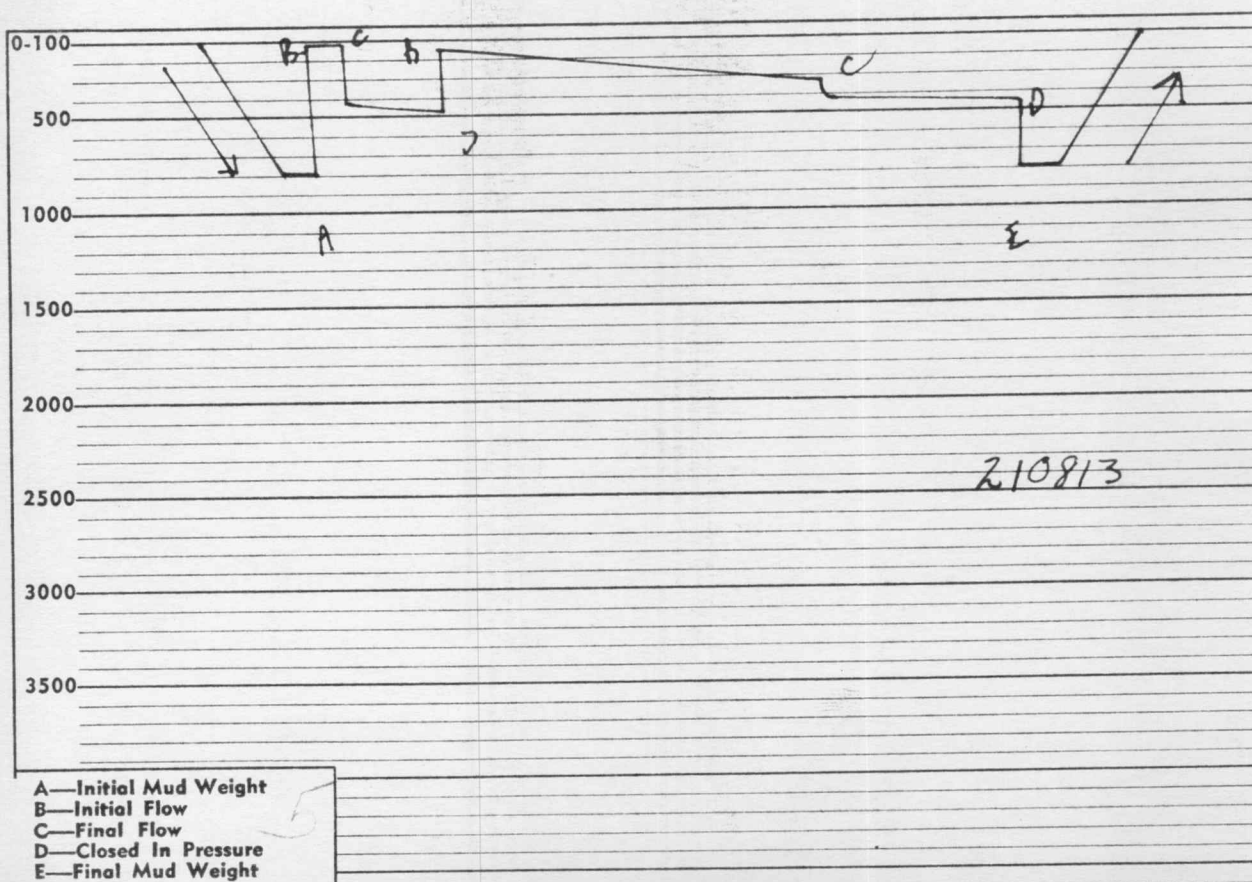
Tester W.L. Gasperson

Initial Closed In Time	30	Minutes
Tool Open Flow Period	1st 5 / 2nd 61	Minutes
Final Closed In Time	30	Minutes
Depth Top Gauge	1667	Ft. Blanked Off No
BT. P.R.D. No	396	12 Hr. Clock
Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure	835	820
Initial Closed in Pres.	510	512
Initial Flow Pres.	150	66-160
Final Flow Pres.	390	120-379
Final Closed in Pres.	495	504
Final Hydro Mud Pressure	835	820
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	1681	Ft. Blanked Off Yes
BT. P.R.D. No	1510	12 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		
Amount-Type of Cushion	-	



↑
PRESSURE
↓

← TIME →



HOWCO 1393—LITTLE'S 58248 5M 5/59

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

		Time	PSI					
Initial Hydro Mud Pressure			820	Ticket No. 210813				
1st	Initial Flow		66					
	Final Flow	5 Minutes	120	Lease UMBEHR				
Initial Closed In Pressure		30 Minutes	512	Well No. 1 Test No. 2				
2nd	Initial Flow		160	BT No. 396 Depth 1667'				
	Final Flow	61 Minutes	379	12 Hr. Clock No. 1793				
Final Closed In Pressure		30 Minutes	504	Temperature Corrected to Actual 82 ° F				
Final Hydro Mud Pressure			820					
1st Flow Pressure			Initial CIP		2nd Flow Pressure		Final CIP	
	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.
P0	.000	66	.000	120	.000	160		
P1	.006	118	.0205	391	.402	379		
P2	.012	120	.041	439				
P3	.018	120	.0615	466				
P4	.024	120	.082	469				
P5	.030	120	.1025	490				
P6			.123	497				
P7			.1435	501				
P8			.164	507				
P9			.1845	509				
P10			.205	512				
1	Minute Intervals		3	Minute Intervals		Minute Intervals		Minute Intervals

Remarks:

Initial Closed In Time 30 Minutes			Date 11-9-59	
Tool Open 1st 5 / 2nd 60 Minutes			Ticket No. 210814	
Final Closed In Time 60 Minutes			HOWCO DISTRICT El Dorado	
Depth Top Gauge 1687 Ft. Blanked Off No			Kind of Job Open Hole	
BT. P.R.D. No 396 12 Hr. Clock		CONTRACTOR WHITE & ELLIS DRILLING INC.		
Pressure Readings Field Office Corrected		HOLE & TOOL DATA		
Initial Hydro Mud Pressure 835 831		Elevation 1340' KB	Top Packer Depth -	
Initial Closed in Pres. 585 577		Total Depth 1700'	Bottom Packer Depth 1685'	
Initial Flow Pres. 30 27-48		Casing or Hole Size 8 3/4"	Size & Type Wall Packer 7 1/4"	
Final Flow Pres. 165 39-168		Liner or Rathole Size 8 3/4"	Size Bottom Choke 3/4"	
Final Closed in Pres. 570 562		Casing Perforations Top Bottom	Size Surface Choke 1"	
Final Hydro Mud Pressure 835 831		Interval Tested 1685-1700'	ID & Length Air Chamber -	
Depth Center Gauge Ft. Blanked Off		Formation Tested Hunton	ID & Length Drill Collars 5 3/4 2 3/8"	
BT. P.R.D. No Hr. Clock		Est. Gauge Depth Temp. Actual 84 F°	Size Drill Pipe 3 1/2" IF	
Pressure Readings Field Office Corrected		MUD DATA Weight 9.6	Viscosity 38	
Initial Hydro Mud Pressure		All depths measured from Kelly Bushing No. Folders Reproduced 5		
Initial Closed in Pres.		REMARKS: Tool opened for a 5 minute First		
Initial Flow Pres.		Flow. Rotated tool for a 30 minute Initial		
Final Flow Pres.		Closed in Pressure. Tool re-opened with a		
Final Closed in Pres.		weak blow throughout 1 hour test. Took a		
Final Hydro Mud Pressure		60 minute Final Closed in Pressure.		
Depth Bottom Gauge 1696 Ft. Blanked Off Yes				
BT. P.R.D. No 1510 12 Hr. Clock				
Pressure Readings Field Office Corrected				
Initial Hydro Mud Pressure				
Initial Closed in Pres.		Recovered 139 Feet of clean oil		
Initial Flow Pres.		Recovered 124 Feet of mud cut oil		
Final Flow Pres.		Recovered 120 Feet of oil cut mud		
Final Closed in Pres.		Recovered Feet of		
Final Hydro Mud Pressure		Witnessed By Watren Morris		
Amount-Type of Cushion -		Tester W.L. Gaspersohn		

LOCATION SEC 30 11 08 9E

FIELD

VEAGE

COUNTY RILEY

STATE KANSAS

LEASE NAME

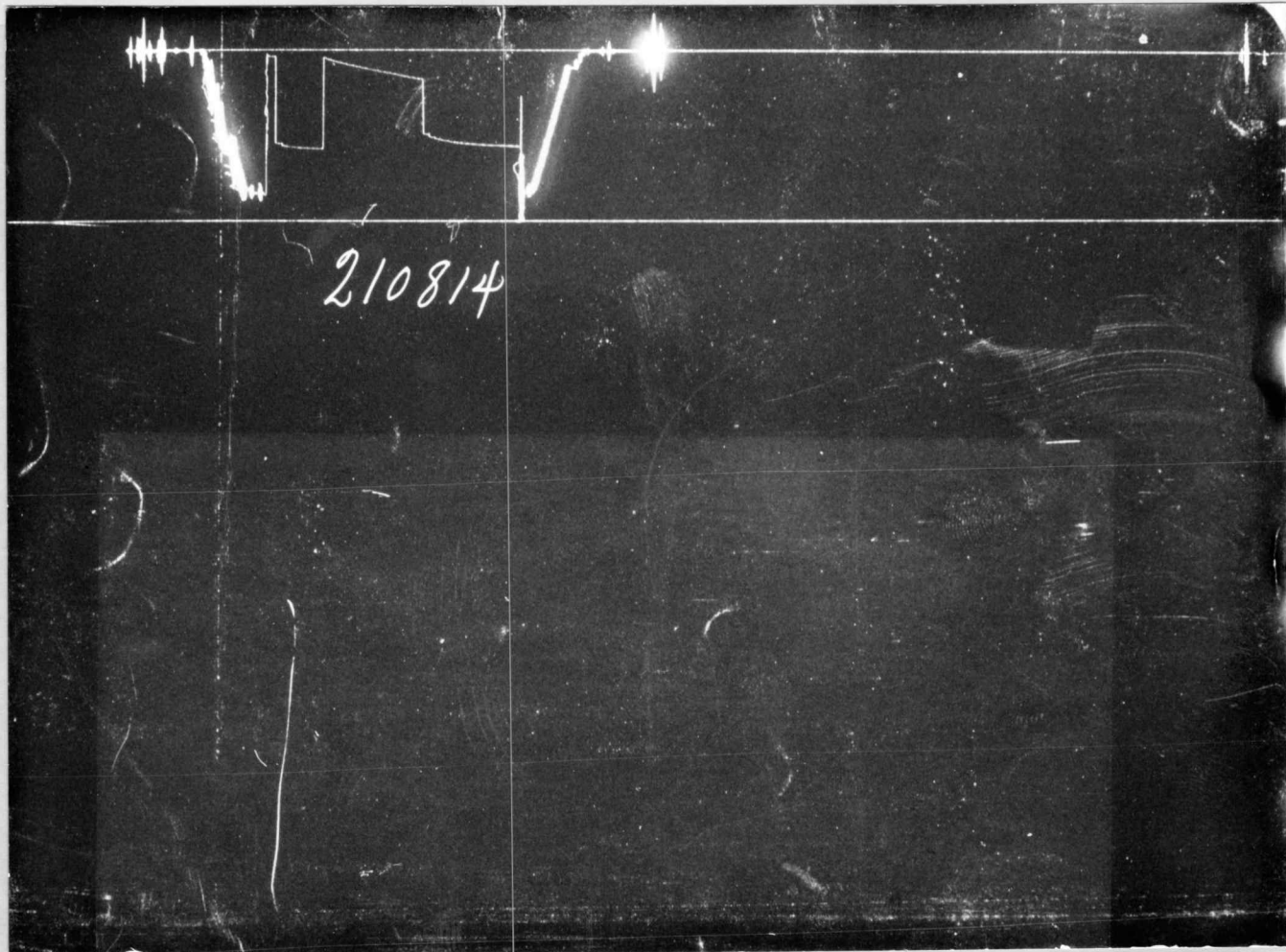
WELL NO. 1

TEST NO. 3

CITIES SERVICE OIL COMPANY

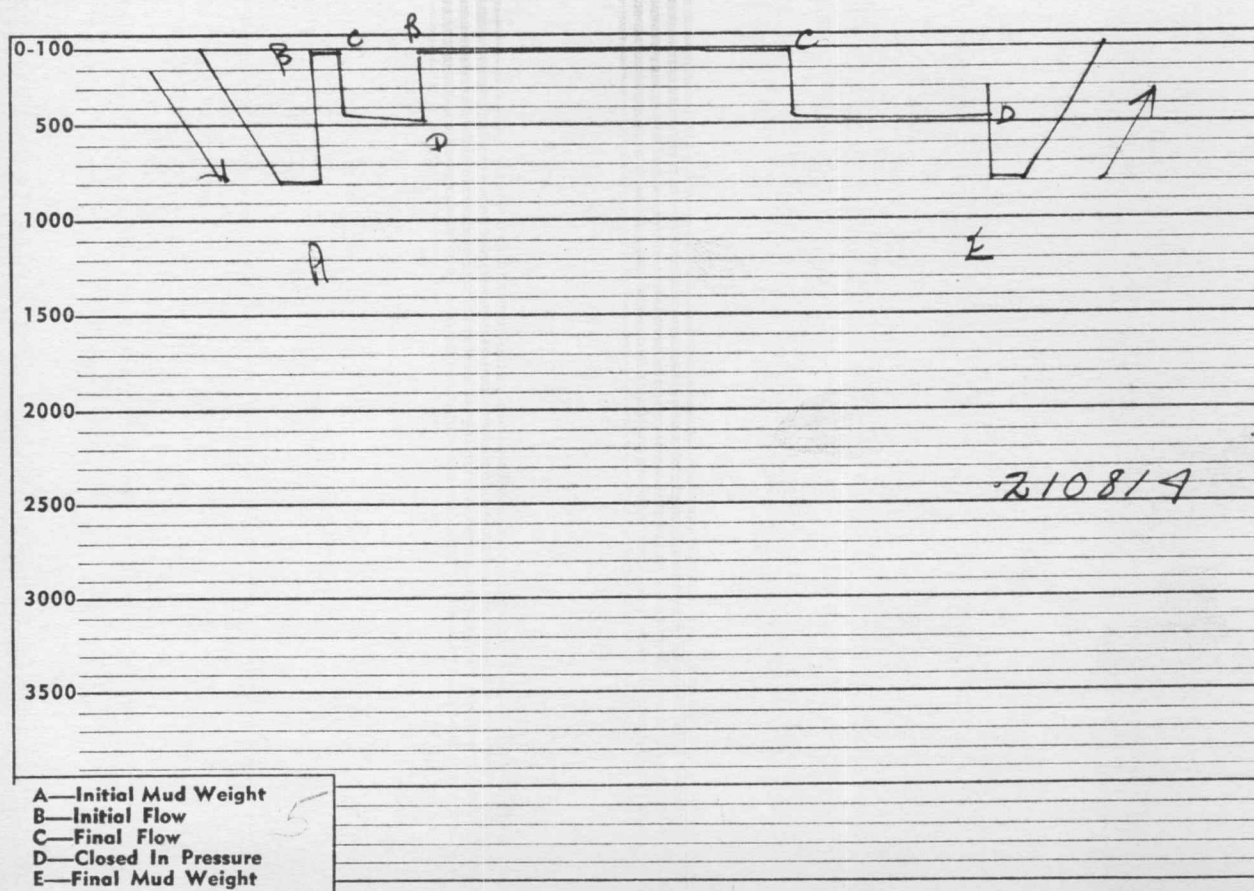
LEASE OWNER

WALTON 30-11-9E OWNERS DISTRICT



PRESSURE

TIME



HOWCO 1383—LITTLE'S 58248 5M 5/59

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

	Time	PSI	Ticket No. 210814 Lease UMBEHR Well No. 1 Test No. 3 BT No. 396 Depth 1687' 12 Hr. Clock No. 1793 Temperature Corrected to Actual 84 ° F
Initial Hydro Mud Pressure		831	
1st	Initial Flow	27	
	Final Flow	5 Minutes 39	
Initial Closed In Pressure	30 Minutes	577	
2nd	Initial Flow	48	
	Final Flow	60 Minutes 168	
Final Closed In Pressure	60 Minutes	562	
Final Hydro Mud Pressure		831	

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.
P0	.000	27	.000	39	.000	48	.000	168
P1	.007	37	.0195	549	.100	87	.040	512
P2	.014	39	.039	562	.200	117	.080	530
P3	.021	39	.0585	565	.300	142	.120	538
P4	.028	39	.078	568	.400	168	.160	546
P5	.035	39	.0975	571			.200	550
P6			.117	572			.240	553
P7			.1365	574			.280	558
P8			.156	577			.320	559
P9			.1755	577			.360	561
P10			.195	577			.400	562
	1	Minute Intervals	3	Minute Intervals	15	Minute Intervals	6	Minute Intervals

Remarks:

Initial Closed In Time 30 Minutes			Date 11-10-59	
Tool Open Flow Period 1st 5 / 2nd 60 Minutes			Ticket No. 210815	
Final Closed In Time 30 Minutes			HOWCO DISTRICT El Dorado	
Depth Top Gauge 1696 Ft.			Kind of Job Open Hole	
BT. P.R.D. No 396		12 Hr. Clock		CONTRACTOR WHITE & ELLIS DRILLING INC.
Pressure Readings Field		Office Corrected		HOLE & TOOL DATA
Initial Hydro Mud Pressure 850		843		Elevation 1340' KB Top Packer Depth -
Initial Closed in Pres. 580		572		Total Depth 1720' Bottom Packer Depth 1700'
Initial Flow Pres. 60		57-70		Casing or Hole Size 8 3/4" Size & Type Wall Packer 7 1/4"
Final Flow Pres. 270		61-266		Liner or Rathole Size 8 3/4" Size Bottom Choke 3/4"
Final Closed in Pres. 540		518		Casing Perforations Top Bottom Size Surface Choke 1"
Final Hydro Mud Pressure 850		837		Interval Tested 1700-1720' ID & Length Air Chamber -
Depth Center Gauge Ft.		Blanked Off		Formation Tested Hunton ID & Length Drill Collars 58 - 2 3/8"
BT. P.R.D. No		Hr. Clock		Est. Gauge Depth Temp. Actual 84 F° Size Drill Pipe 3 1/2" IF
Pressure Readings Field		Office Corrected		MUD DATA Weight 9.5 Viscosity 37
Initial Hydro Mud Pressure				All depths measured from Kelly Bushing No. Folders Reproduced 5
Initial Closed in Pres.				REMARKS: Tool opened for a 5 minute First
Initial Flow Pres.				Flow. Rotated tool for a 30 minute Initial
Final Flow Pres.				Closed in Pressure. Tool re-opened with a
Final Closed in Pres.				fair blow throughout 1 hour test. Took a
Final Hydro Mud Pressure				30 minute Final Closed in Pressure.
Depth Bottom Gauge 1716 Ft.		Blanked Off Yes		
BT. P.R.D. No 1510		12 Hr. Clock		
Pressure Readings Field		Office Corrected		
Initial Hydro Mud Pressure				
Initial Closed in Pres.				Recovered 480 Feet of clean gassy oil
Initial Flow Pres.				Recovered 90 Feet of mud cut oil
Final Flow Pres.				Recovered 60 Feet of watery drilling mud
Final Closed in Pres.				Recovered Feet of
Final Hydro Mud Pressure				Witnessed By Warren Morris
Amount-Type of Cushion				Tester W. L. Gasperson

LOCATION

SEC 30 11S 8E

FIELD

YAEGE

COUNTY

KILEY

STATE KANSAS

UNBEH

LEASE NAME

WELL NO.

TEST NO.

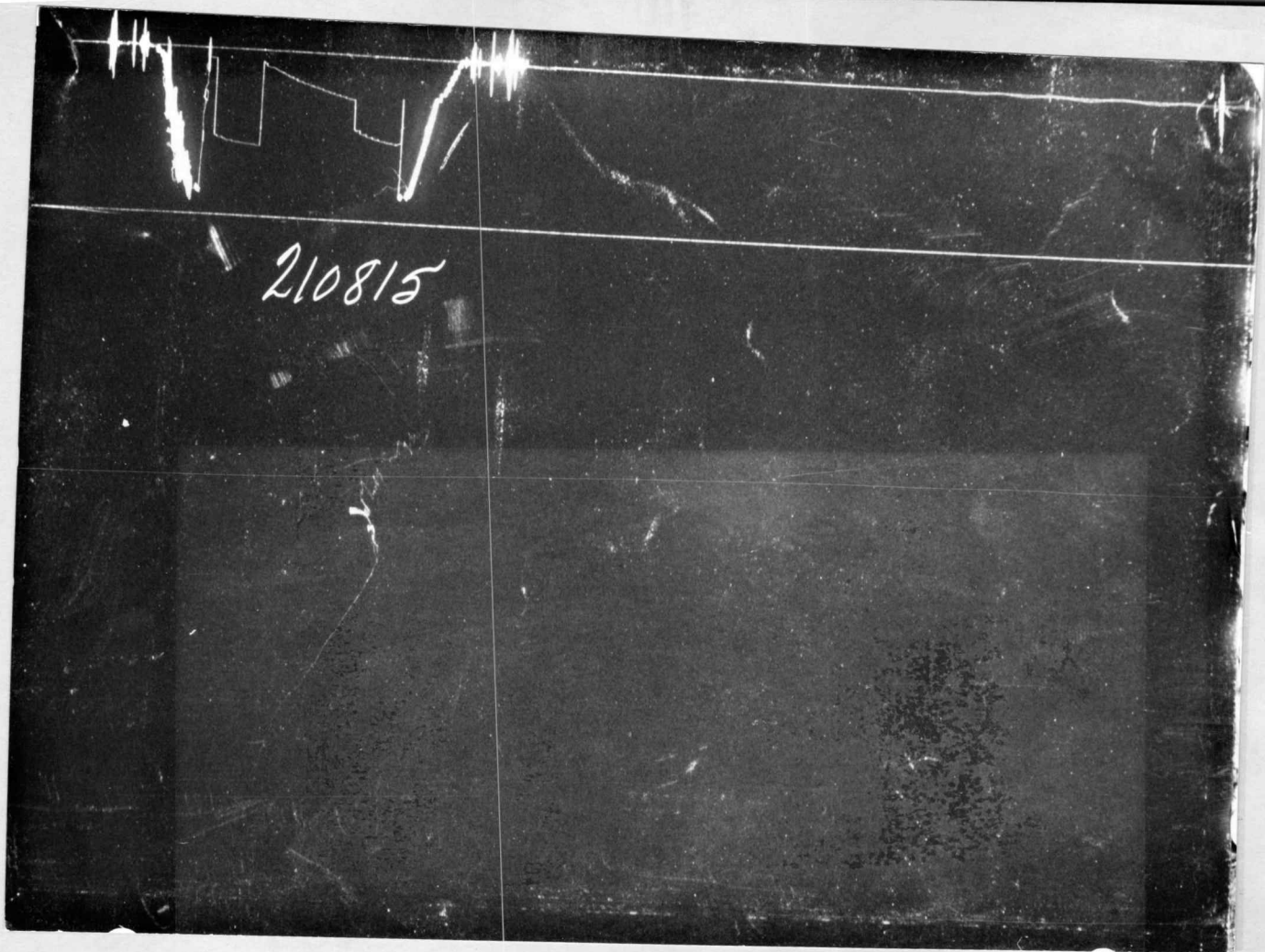
CITIES SERVICE OIL COMPANY

LEASE OWNER

MADISON

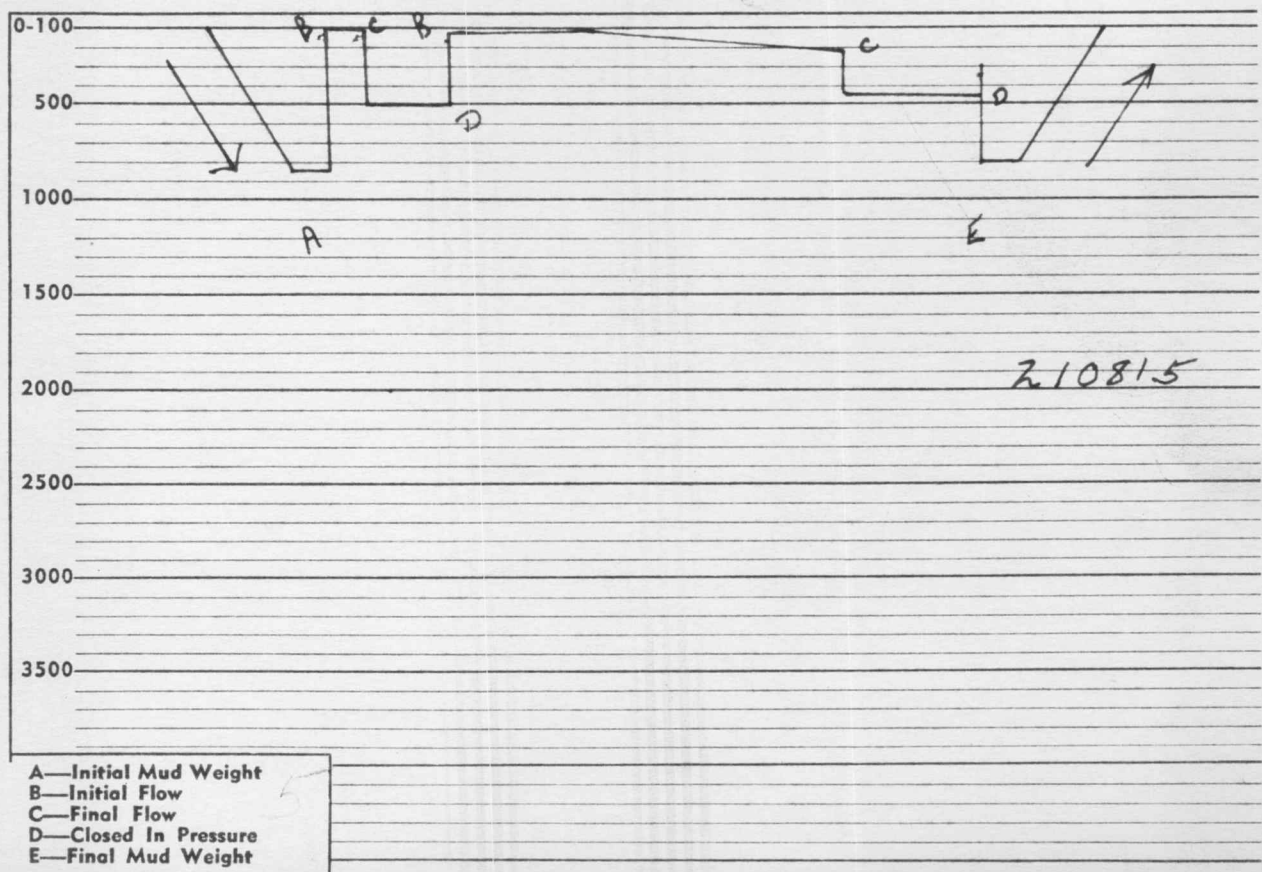
OWNERS DISTRICT

30-11-9E



↑
PRESSURE
↓

← TIME →



HOWCO 1393—LITTLE'S 58248 5M 5/59

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

Company

CITIES SERVICE OIL COMPANY

Date 11-10-59

		Time	PSI		
Initial Hydro Mud Pressure			843	Ticket No. 210815	
1st	Initial Flow		57		
	Final Flow	5 Minutes	61		
Initial Closed In Pressure		30 Minutes	572	Lease UMBEHR	
2nd	Initial Flow		70	Well No. 1 Test No. 4	
	Final Flow	60 Minutes	266	BT No. 396 Depth. 1696'	
Final Closed In Pressure		30 Minutes	518	12 Hr. Clock No. 1793	
Final Hydro Mud Pressure			837	Temperature Corrected to Actual 84 ° F	

	1st Flow Pressure		Initial CIP		2nd Flow Pressure		Final CIP	
	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Temp. Corr.
P0	.000	57	.000	61	.000	70	.000	266
P1	.007	60	.020	534	.099	143	.020	454
P2	.014	60	.040	541	.198	195	.040	476
P3	.021	61	.060	550	.297	235	.060	488
P4	.028	61	.080	555	.396	266	.080	497
P5	.035	61	.100	558			.100	501
P6			.120	564			.120	512
P7			.140	565			.140	516
P8			.160	567			.160	521
P9			.180	572			.180	525
P10			.200	572			.200	518
	1 Minute Intervals		3 Minute Intervals		15 Minute Intervals		3 Minute Intervals	

Remarks:

UMBEHR

LEASE NAME

WELL NO.

TEST NO.

CITIES SERVICE OIL COMPANY

MADISON 30-11-92
OWNERS DISTRICTLOCATION Sec. 30-11s-92
SW SW SW
NE

FIELD

YACE
CAGE

COUNTY

RILEY

STATE KANSAS

Date 11-10-59

Ticket No. 210816

HOWCO DISTRICT ElDorado

Kind of Job Open Hole



CONTRACTOR White & Ellis Drilling Inc.

HOLE & TOOL DATA

Elevation	1340' KB	Top Packer Depth	-
Total Depth	1740'	Bottom Packer Depth	1720'
Casing or Hole Size	8 3/4"	Size & Type Wall Packer	7 1/4"
Liner or Rathole Size	8 3/4"	Size Bottom Choke	3/4"
Casing Perforations	Top Bottom	Size Surface Choke	1"
Interval Tested	1720-1740'	ID & Length Air Chamber	-

Formation Tested Hunton ID & Length Drill Collars 58' x 2 3/8"

Est. Gauge Depth Temp. actual 94° Size Drill Pipe 3 1/2" IF

MUD DATA Weight 9.5 Viscosity 37

All depths measured from Kelly Bushing No. Folders Reproduced 5

REMARKS: Tool open at 7:45 PM for 5 minutes. Rotated tool for 30 minute initial closed in pressure. Reopened tool with a strong blow. Closed for 30 minutes final closed in pressure.

NO SPECIAL READING ADAPTABLE.

Recovered 120 Feet of oil specked mud

Recovered 1170 Feet of water

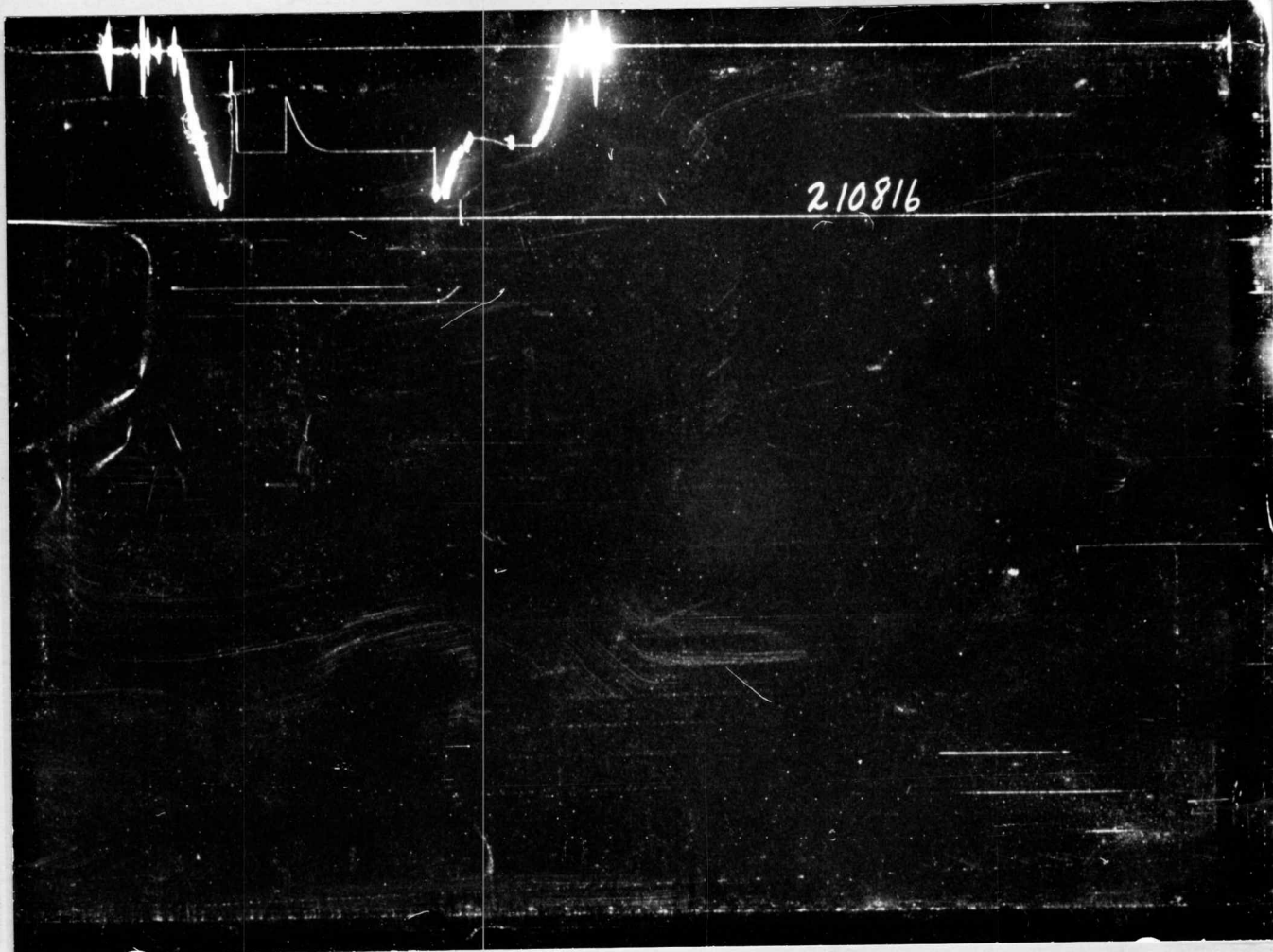
Recovered Feet of

Recovered Feet of

Witnessed By Warren Morris

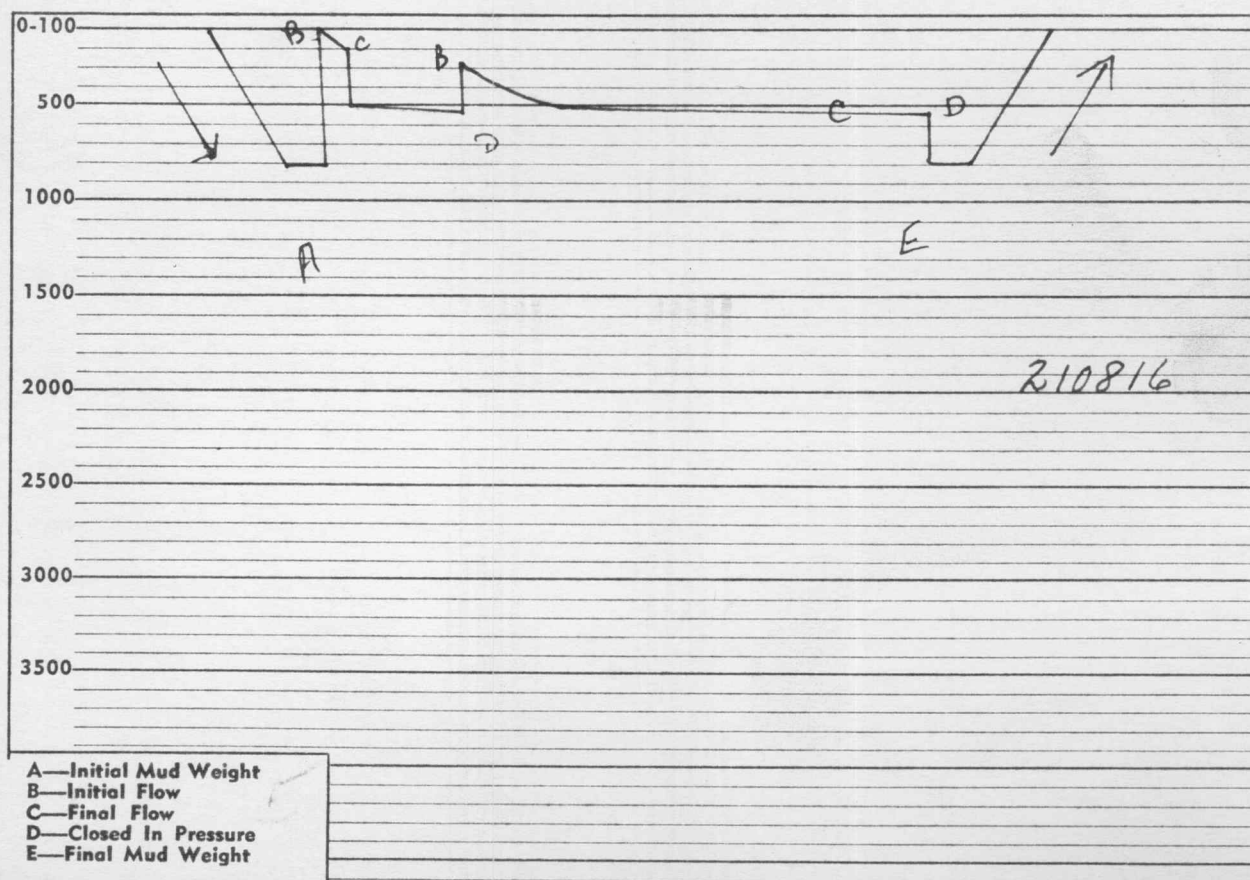
Tester W. L. Gasperson

Initial Closed In Time	30	Minutes
Tool Open Flow Period	1st 5 / 2nd 60	Minutes
Final Closed In Time	30	Minutes
Depth Top Gauge	1722	Ft. Blanked Off No
BT. P.R.D. No	396	12 Hr. Clock
Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure	850	860
Initial Closed in Pres.	600	605
Initial Flow Pres.	270	255-277
Final Flow Pres.	600	257-605
Final Closed in Pres.	600	605
Final Hydro Mud Pressure	835	849
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	1736	Ft. Blanked Off Yes
BT. P.R.D. No	1510	12 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		
Amount-Type of Cushion	-	



PRESSURE

TIME



HOWCO 1383—LITTLE'S 59248 5M 5/59

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