FLUID SAMPLE DATA

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
Recovery Water	____ @ ____	°F.	____ ppm
Recovery Mud	____ @ ____	°F.	____ ppm
Recovery Mud Filtrate	____ @ ____	°F.	____ ppm
Mud Pit Sample	____ @ ____	°F.	____ ppm
Mud Pit Sample Filtrate	____ @ ____	°F.	32,000 ppm

Mud Weight 9.8 vis 52 sec.

Date 2-13-81 Ticket Number 915584
Kind of D.S.T. OPEN HOLE Halliburton Location PRATT
Tester DON GRAHAM Witness
Drilling Contractor GABBERT-JONES, INCORPORATED DR

EQUIPMENT & HOLE DATA

Formation Tested Marmaton
Elevation 2200' KB Ft.
Net Productive Interval 16' Ft.
All Depths Measured From Kelly Bushing
Total Depth 4934' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 544' I.D. 2.25"
Drill Pipe Length 4291' I.D. 3.826"
Packer Depth(s) 4864' Ft.
Depth Tester Valve 4847' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve
Surface Choke 1/4" Bottom Choke .75"

Recovered 240 Feet of clean gas cut oil 39.8 API gravity @ 60°F.
Recovered 180 Feet of oil and gas cut mud
Recovered Feet of
Recovered Feet of
Recovered Feet of

Mea. From Tester Valve

Remarks See production test data sheet

*-Time given and recorded does not agree

Q-Questionable

TEMPERATURE	Gauge No. 5605		Gauge No. 5604		Gauge No.		TIME (00:00-24:00 hrs.)	
	Depth: 4849 Ft.		Depth: 4930 Ft.		Depth: Ft.			
	12 Hour Clock		12 Hour Clock		Hour Clock		Tool	
Est. °F.	Blanked Off No		Blanked Off Yes		Blanked Off		Opened 15:00	
4929'							Opened	
Actual 118 °F.	Pressures		Pressures		Pressures		Bypass 19:15	
	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	2466.9	UTR	2473.1	UTR				
First Period Flow Initial	309.3	370.0 Q	329.9	405.1			____	____
First Period Flow Final	412.4	430.9	433.0	437.6			60	63
First Period Closed in	1475.5	1479.5	1458.0	1483.5			60	58
Second Period Flow Initial	371.2	531.9	391.8	563.9			____	____
Second Period Flow Final	433.0	432.9	433.0	447.4			45	45
Second Period Closed in	1475.5	1475.4	1478.5	1482.5			90	99*
Third Period Flow Initial							____	____
Third Period Flow Final								
Third Period Closed in								
Final Hydrostatic	2425.5	2468.9	2452.3	2504.7			____	____

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FORMATION TEST DATA

(5)

LITTLE'S

Legal Location Sec. - Twp. - Rng. 23-30-18W
Lease Name CURTIS-UNRUH
Well No. 4
Test No. 1
Tested Interval 4864'-4934'
Field Area
County KIOWA
State KANSAS
Lease Owner/Company Name THE MAURICE L. BROWN COMPANY

Casing perfs._____ Bottom choke_____ Surf. temp_____ °F Ticket No. 915584

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
10:30					Called out
12:00					On location, rig pulling pipe
12:20					Started clocks
12:30					Picked up tool
13:10					Tool made up
14:58					Tool on bottom
15:00					Opened tool with a strong blow
15:03	1 1/2"	20	1949		Gas to surface
15:20	1 1/2"	4	764		Blowing mud through flow line
15:30					Oil to surface, flowing
16:00					Closed tool
17:00					Opened tool, gas to surface
17:02					Flowing oil
17:45					Closed tool
19:15					Tool off bottom
20:30					Stopped pulling pipe, oil and gas in pipe @ 650'
8:40					Tool in table
2-14-81 9:20					Tool on walk

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PRODUCTION TEST DATA

(5) LITTLE'S 96672 5M 8/74

Gauge No.	5605	Depth	4849'	Clock No.	17485	12 hour	Ticket No.	915584

	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"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	370.0 Q	.000	----	430.9	.000	531.9	.000	-----	432.9					
1	.0946*	463.9	.0128**	1.520	1267.4	.0594	419.5	.0530***	1.156	1441.6					
2	.1497	452.5	.0383	1.068	1429.3	.1188	441.2	.0994	.909	1455.9					
3	.2148	485.5	.0638	.871	1451.8	.1782	441.2	.1458	.767	1462.0					
4	.2798	448.4	.0893	.748	1462.0	.2376	437.1	.1921	.670	1466.1					
5	.3449	445.3	.1148	.660	1468.2	.2970	432.9	.2385	.598	1468.2					
6	.4100	430.9	.1403	.594	1470.2			.2849	.542	1470.2					
7			.1659	.541	1472.3			.3313	.496	1471.3					
8			.1914	.497	1474.3			.3777	.458	1472.3					
9			.2169	.461	1475.4			.4240	.426	1473.3					
10			.2424	.430	1476.4			.4705	.398	1473.3					
11			.2679	.403	1477.4			.5169	.374	1473.3					
12			.2934	.380	1478.4			.5632	.353	1474.3					
13			.3190	.359	1479.5			.6096	.334	1475.4					
14			.3445	.340	1479.5			.6560	.318	1475.4					
15			.3700	.324	1479.5										

Gauge No.	5604	Depth	4930'	Clock No.	17481	hour	12

0	.000	405.1	.000	-----	437.6	.000	563.9	.000	-----	447.4					
1	.0863	469.0	.0133**	1.514	1225.8	.0598	438.1	.0531***	1.162	1448.6					
2	.1526	465.9	.0396	1.063	1429.1	.1196	459.7	.0995	.914	1464.0					
3	.2189	497.9	.0660	.865	1455.8	.1794	457.7	.1460	.772	1470.2					
4	.2853	501.0	.0924	.742	1466.1	.2392	451.5	.1925	.674	1474.3					
5	.3516	541.1	.1189	.655	1471.2	.2990	447.4	.2389	.602	1476.3					
6	.4180	437.6	.1453	.588	1474.3			.2854	.546	1476.3					
7			.1717	.536	1476.3			.3318	.500	1477.4					
8			.1981	.493	1478.4			.3783	.462	1480.4					
9			.2245	.457	1480.4			.4247	.429	1480.4					
10			.2509	.426	1481.5			.4712	.402	1481.5					
11			.2773	.399	1482.5			.5176	.378	1482.5					
12			.3038	.376	1483.5			.5641	.356	1482.5					
13			.3302	.355	1483.5			.6105	.337	1482.5					
14			.3566	.337	1483.5			.6570	.320	1482.5					
15			.3830	.320	1483.5										

Reading Interval	10	4	9	7			Minutes

REMARKS: *-13 minutes **-2 minutes ***-8 minutes Q-Questionable

SPECIAL PRESSURE DATA

TICKET NO.	915584	
BT GAUGE NO.	INITIAL	~~FINAL~~
5605	⊙	⊘
5604	◇·	◇·

INITIAL CIP ONLY

Log $\frac{t+\theta}{\theta}$

1.0 .9 .8 .7 .6 .5 .4 .3 .2 1.

1400 1420 1440 1460 1480 1500 1520

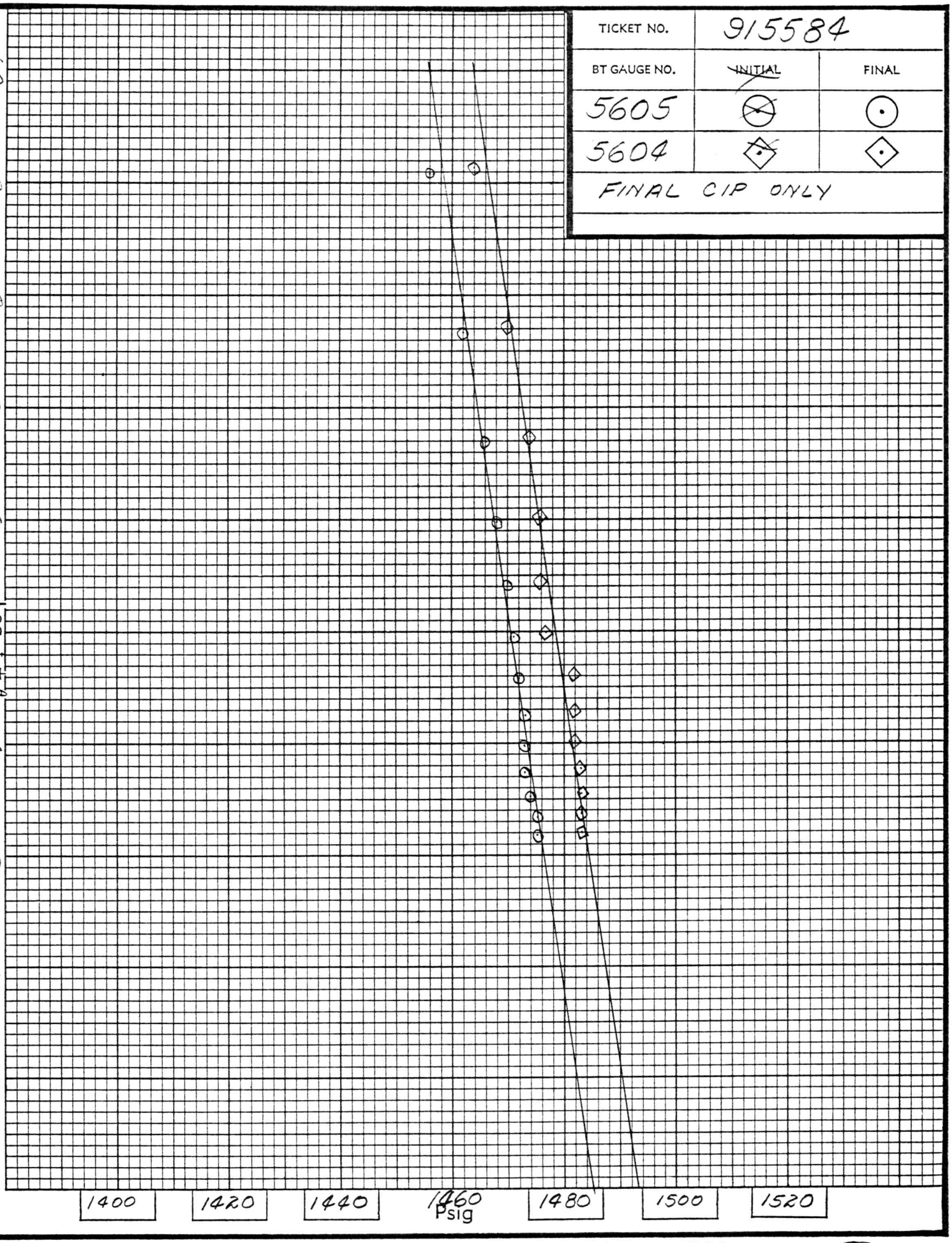
Psig

EXTRAPOLATED PRESSURE GRAPH

(5)

TICKET NO.	915584	
BT GAUGE NO.	~~INITIAL~~	FINAL
5605	⊗	⊙
5604	◇	◇

FINAL CIP ONLY



EXTRAPOLATED PRESSURE GRAPH

5

Liquid Production

B.T. Gauge Numbers			5605	5604	Ticket Number		915584	
			PRESSURE	PRESSURE				
Initial Hydrostatic			UTR	UTR	Elevation		2200	ft.
Final Hydrostatic			2468.9	2504.7	Indicated Production	1st Flow	-	bbls./day
1st Flow	Initial	Time	370.0 Q	405.1		2nd Flow	**-80	bbls./day
	Final	63	430.9	437.6		3rd Flow	-	bbls./day
	Closed In Pressure	58	1479.5	1483.5	Drill Collar Length		544	ft.
2nd Flow	Initial	Time	531.9	563.9	Drill Collar I.D.		2.25	in.
	Final	45	432.9	447.4	Drill Pipe Factor		.01422	bbls./ft.
	Closed In Pressure	99	1475.4	1482.5	Hole Size		7 7/8	in.
3rd Flow	Initial	Time			Footage Tested		16	ft.
	Final				Mud Weight		9.8	lbs./gal.
	Closed In Pressure				Viscosity, Oil or ~~Water~~		*Est. .3726	cp
Extrapolated Static Pressure		1st	1492	1496	Oil API Gravity		39.8	—
		2nd	1485	1493	Water Specific Gravity		-	—
		3rd	-	-	Temperature		118	°F
Slope P/10		1st	1455	1459				
		2nd	1456	1464				
		3rd	-	-				

Remarks: UTR=Unable to read Q-Questionable reading.
*-Viscosity used in calculation is for 39.8 API crude oil having an estimated G.O.R. of 2200 cu. ft. /bbl.
Production rate, oil gravity, and basis of obtaining G.O.R. obtained from Mr. Vern Hazelhorst.
**-Production rate used in calculations obtained from initial production on well # 3 on the Curtis Unruh lease.

SUMMARY

PRODUCT	EQUATION	B.T. Gauge No. 5605 Depth 4849' FIRST	SECOND	THIRD	B.T. Gauge No. 5604 Depth 4930' FIRST	SECOND	THIRD	UNITS
Production	$Q = \frac{1440\ R}{t}$		80			80		bbls. day
Transmissibility	$\frac{Kh}{\mu} = \frac{162.6\ Q}{m}$		448.552			448.552		$\frac{\text{md. ft.}}{\text{cp}}$
Indicated Flow Capacity	$Kh = \frac{Kh}{\mu}\ \mu$		167.131			167.131		md. ft.
Average Effective	$K = \frac{Kh}{h}$		-			-		md.
Permeability	$K_1 = \frac{Kh}{h_1}$		10.446			10.446		md.
Damage Ratio	$DR = .183\ \frac{Ps - Pf}{m}$		6.639			6.639		—
Theoretical Potential w/Damage Removed	$Q_1 = Q\ DR$		531			528		bbls. day
Approx. Radius of Investigation	$b \backsimeq \sqrt{Kt}$ or $\sqrt{Kt_0}$		-			-		ft.
	$b_1 \backsimeq \sqrt{K_1 t}$ or $\sqrt{K_1 t_0}$		34			34		ft.
Potentiometric Surface *	$Pot. = El - GD + 2.319\ Ps$		794			732		ft.

TICKET NO. 915584

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	5 5/8"	2"	1'	
Water Cushion Valve	6"	2"	1' Change over	
Drill Pipe	4.5"	3.826 "	4291'	
Drill Collars	6 1/4"	2.25"	544'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5 3/4"	.87"	6'	4841'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	4847'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	4849'
Hydraulic Jar	5"	1.5"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	1.53 "	6'	4864'
	6"	2"	2' Change over	
Distributor				
Packer Assembly				
Flush Joint Anchor				
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case				
Drill Collars	6 1/2"	2.25"	30'	
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	5"	2.36"	31'	
Flush Joint Anchor	5"	2.25 "	1'	4929'
Blanked-Off B.T. Running Case	5"	3.06"	4'	4930'
Total Depth				4934'

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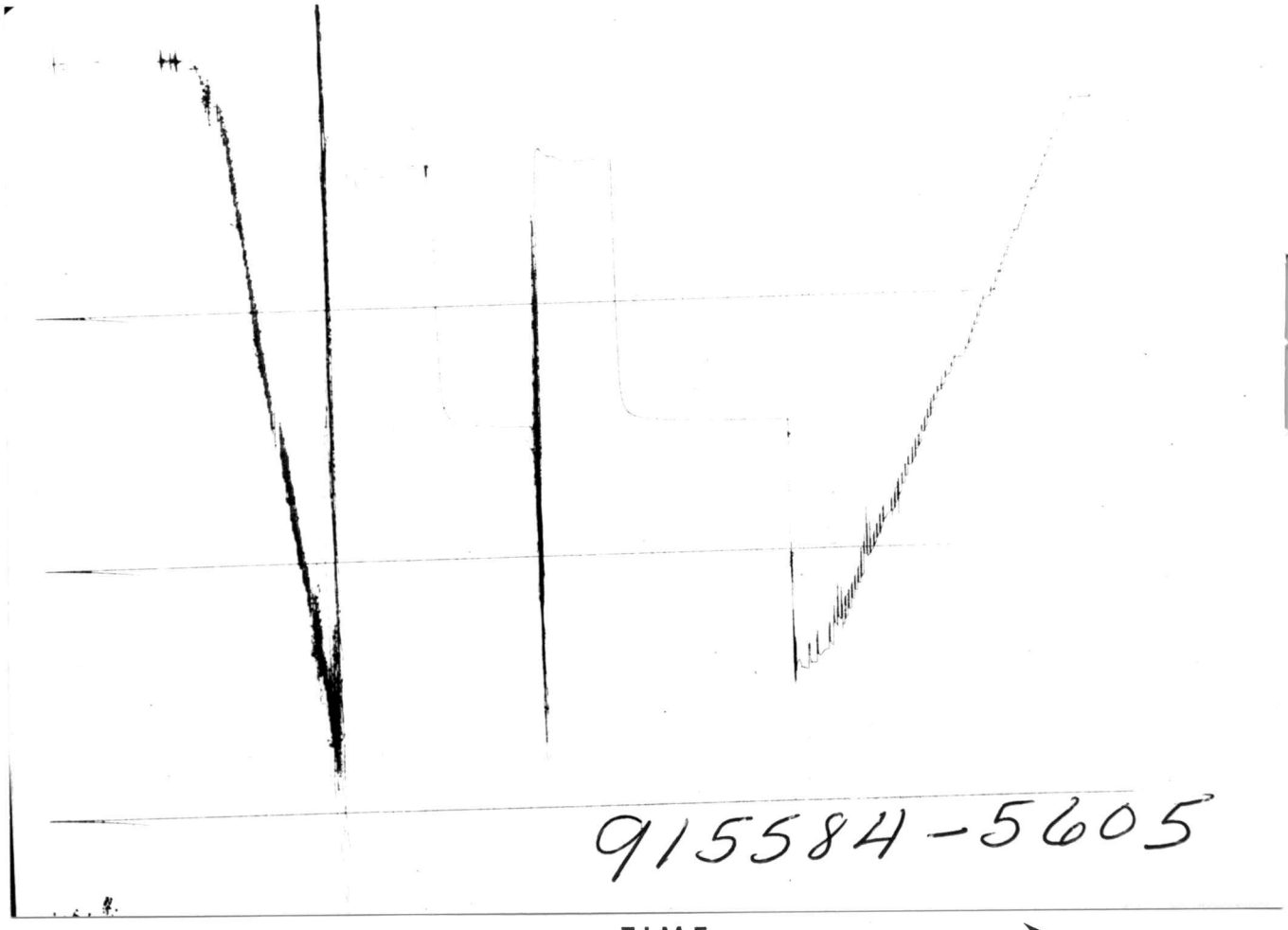
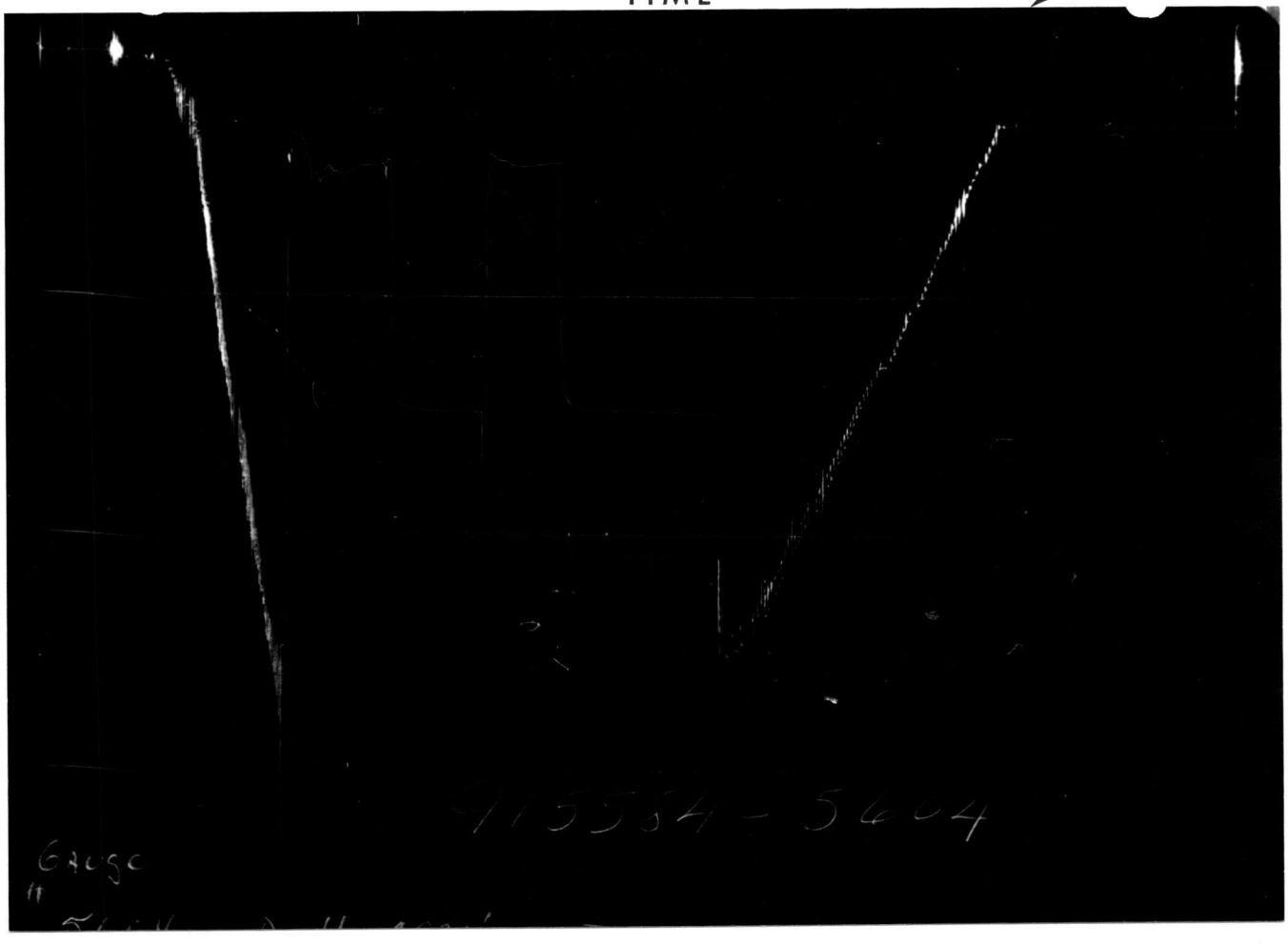
EQUIPMENT DATA

(5) LITTLE'S 111036 75C 2/80



PRESSURE

TIME



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

TEMPERATURE
RECORDER
CHART

10° each circle

FLUID SAMPLE DATA

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
Recovery Water	@	°F.		ppm
Recovery Mud	@	°F.		ppm
Recovery Mud Filtrate	@	°F.		ppm
Mud Pit Sample	@	°F.		ppm
Mud Pit Sample Filtrate	@	°F.	38,000	ppm

Mud Weight 9.5 vis 44 sec.

Date 2-15-81 Ticket Number 915585
Kind of D.S.T. OPEN HOLE Halliburton Location PRATT
Tester MR. GRAHAM Witness MR. RHOADES
Drilling Contractor GABBERT & JONES RIG #6 IC

EQUIPMENT & HOLE DATA

Formation Tested Mississippi
Elevation 2195' GL Ft.
Net Productive Interval - Ft.
All Depths Measured From Kelly Bushing
Total Depth 5080' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 443' I.D. 2.25"
Drill Pipe Length 4564' I.D. 3.826"
Packer Depth(s) 5036' Ft.
Depth Tester Valve 5019' Ft.

Cushion TYPE AMOUNT Ft. Depth Back Pres. Valve — Surface Choke 1/4" — Bottom Choke .75"

Recovered 20 Feet of Mud
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Meas. From Tester Valve

Remarks SEE PRODUCTION TEST DATA SHEET.

TEMPERATURE	Gauge No. 5605 Depth: 5021' Ft.	Gauge No. 5604 Depth: 5076' Ft.	Gauge No. Depth: Ft.	TIME (00:00-24:00 hrs.)
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 14:30
Est. °F.	Blanked Off NO	Blanked Off YES	Blanked Off	Opened Bypass 18:30
5075' @ Actual 115 °F.	Pressures	Pressures	Pressures	

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		2653.6	2654.5	2701.7	2691.2				
First Period	Flow Initial	21	24.7	62	63.9			—	—
	Flow Final	42	36.8	62	68.0			60	
	Closed in	62	35.0	83	76.2			60	
Second Period	Flow Initial	42	29.8	62	71.1			—	—
	Flow Final	42	45.3	62	76.2			60	
	Closed in	62	60.8	83	95.8			60	
Third Period	Flow Initial							—	—
	Flow Final								
	Closed in								
Final Hydrostatic		2591.3	2542.5	2597.8	2574.8			—	—

Legal Location Sec. - Twp. - Rng. 23 - 30 - 18W
Lease Name CURTIS UNRUH
Well No. 4
Test No. 2
Field Area ---
Tested Interval 5036' - 5080'
County KIOWA
State KANSAS
Lease Owner/Company Name THE MAURICE L. BROWN COMPANY

FORM 181—R2 — PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S

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Casing perfs._____ Bottom choke_____ Surf. temp_____ °F Ticket No. 915585

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
08:45					Called out.
10:20					On location-rig pulling pipe.
10:25					Started clocks.
12:00					Picked up tool.
12:35					Tool made up & through table.
14:28					On bottom.
14:30					Opened tool with weak blow.
15:15					Blow died in 45 minutes.
15:30					Closed tool.
16:30					Reopened tool with no blow.
17:30					Closed tool.
18:30					Off bottom.
20:40					Tool in table.
21:15					Tool on walk.

FORM 182-R1—PRINTED IN U.S.A.

PRODUCTION TEST DATA

LITTLE'S 96672 5M 8/74

TICKET NO. 915585

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	5 5/8"	2"	1'	
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	4564'	
Drill Collars	6 1/2"	2.25"	443'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5 3/4"	.87"	6'	5014'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	5019'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	5021'
Hydraulic Jar	5"	1.5"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	5036'
Flush Joint Anchor	5"	2.36"	37'	
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"	2.25"	1'	5075' TEMP.
Blanked-Off B.T. Running Case	5"	3.06"	4'	5076'
Total Depth				5080'

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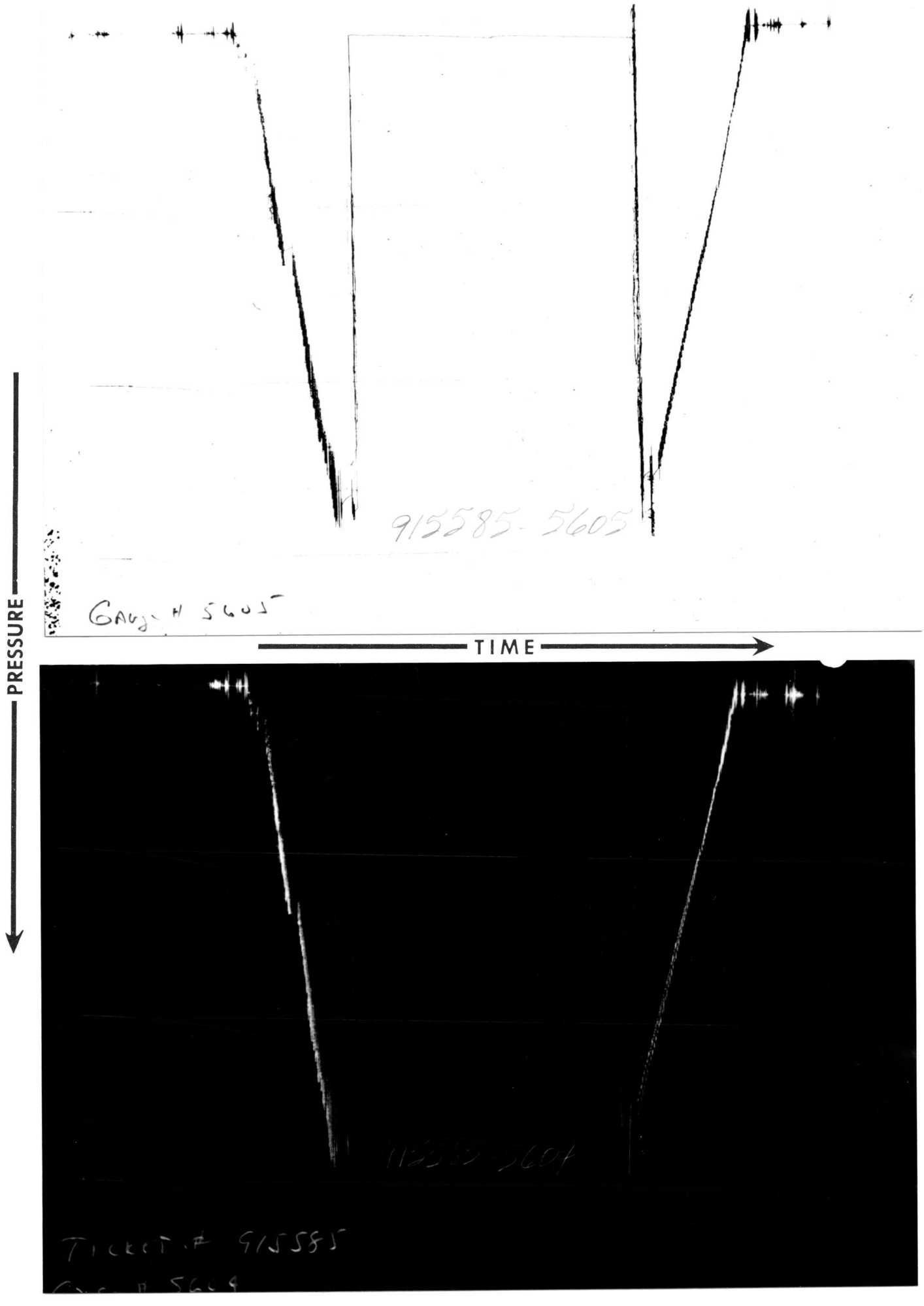
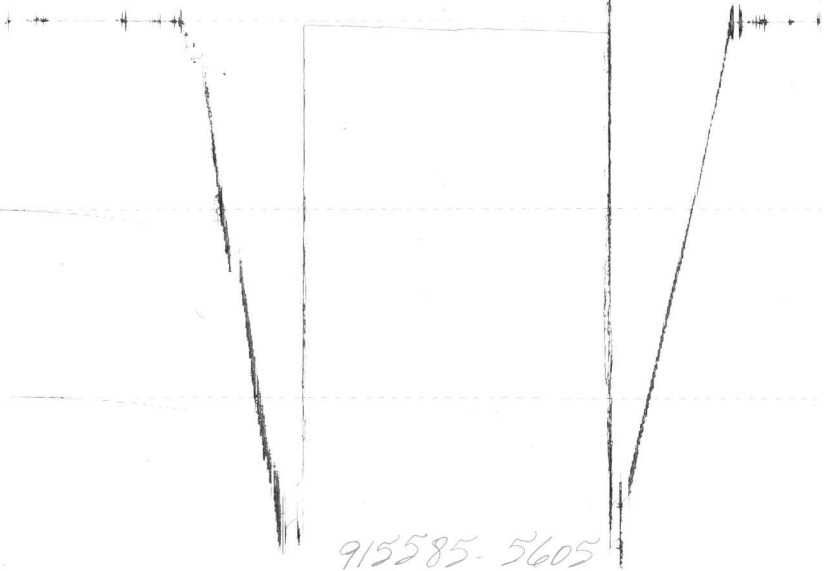
EQUIPMENT DATA

LITTLE'S 111034 7SC 2/80



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



Gauge # 5605
Ticket # 915585
Depth: 5,021 ft.

TEMPERATURE
RECORDER
CHART

10° each circle

FLUID SAMPLE DATA

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
Recovery Water	____ @ ____	°F.		ppm
Recovery Mud	____ @ ____	°F.		ppm
Recovery Mud Filtrate	____ @ ____	°F.		ppm
Mud Pit Sample	____ @ ____	°F.		ppm
Mud Pit Sample Filtrate	____ @ ____	°F.	32,800	ppm

Mud Weight 9.8 vis 68 sec.

Date 2-16-81 Ticket Number 915586
Kind of D.S.T. OPEN HOLE Halliburton Location PRATT
Tester MR. GRAHAM Witness MR. RHOADES
Drilling Contractor GABBERT & JONES RIG #6 IC

EQUIPMENT & HOLE DATA

Formation Tested -
Elevation 2195' GL Ft.
Net Productive Interval - Ft.
All Depths Measured From Kelly Bushing
Total Depth 5100' Ft.
Main Hole/Casing Size 7 7/8"
Drill Collar Length 443' I.D. 2.25"
Drill Pipe Length 4603' I.D. 3.826"
Packer Depth(s) 5075' Ft.
Depth Tester Valve 5058' Ft.

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

Recovered 10 Feet of Mud
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Mea. From Tester Valve

Remarks SEE PRODUCTION TEST DATA SHEET.

NOTE: Both charts read from corrected baseline.

TEMPERATURE	Gauge No. 5605	Gauge No. 5604	Gauge No.	TIME (00:00-24:00 hrs.)
	Depth: 5060' Ft.	Depth: 5096' Ft.	Depth: Ft.	
	12 Hour Clock	12 Hour Clock	Hour Clock	Tool Opened 12:35
Est. °F.	Blanked Off NO	Blanked Off ??	Blanked Off	
5095' @ Actual 111 °F.	Pressures	Pressures	Pressures	Opened Bypass 16:35

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		2715.8	2656.6	2722.5	2678.7				
First Period	Flow Initial	62	25.7	62	40.2			—	—
	Flow Final	62	19.5	62	38.1			60	
	Closed in	83	22.6	83	42.2			60	
Second Period	Flow Initial	62	21.6	62	40.2			—	—
	Flow Final	62	26.8	62	45.3			60	
	Closed in	83	30.9	83	48.4			60	
Third Period	Flow Initial							—	—
	Flow Final								
	Closed in								
Final Hydrostatic		2679.3	2591.7	2639.3	2610.1			—	—

Legal Location Sec. - Twp. - Rng. 23 - 30 - 18W
Lease Name CURTIS UNRUH
Well No. 4
Test No. 3
Field Area ---
Tested Interval 5075' - 5100'
County KIOWA
State KANSAS
Lease Owner/Company Name THE MAURICE L. BROWN COMPANY

FORM 181-R2 – PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S

5

Casing perfs._____ Bottom choke_____ Surf. temp_____ °F Ticket No. 915586

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
06:30					Called out.
08:15					On location-rig circulating.
09:15					Started clocks.
10:36					Picked up tool.
10:52					Tool made up.
11:01					Tool through table.
12:35					Opened tool with very weak blow.
12:36					Blow died in 1 minute.
13:35					Closed tool.
14:35					Opened tool with no blow.
15:35					Closed tool.
16:35					Off bottom.
18:50					Tool in table.
19:25					Tool on walk.

FORM 182-R1—PRINTED IN U.S.A.

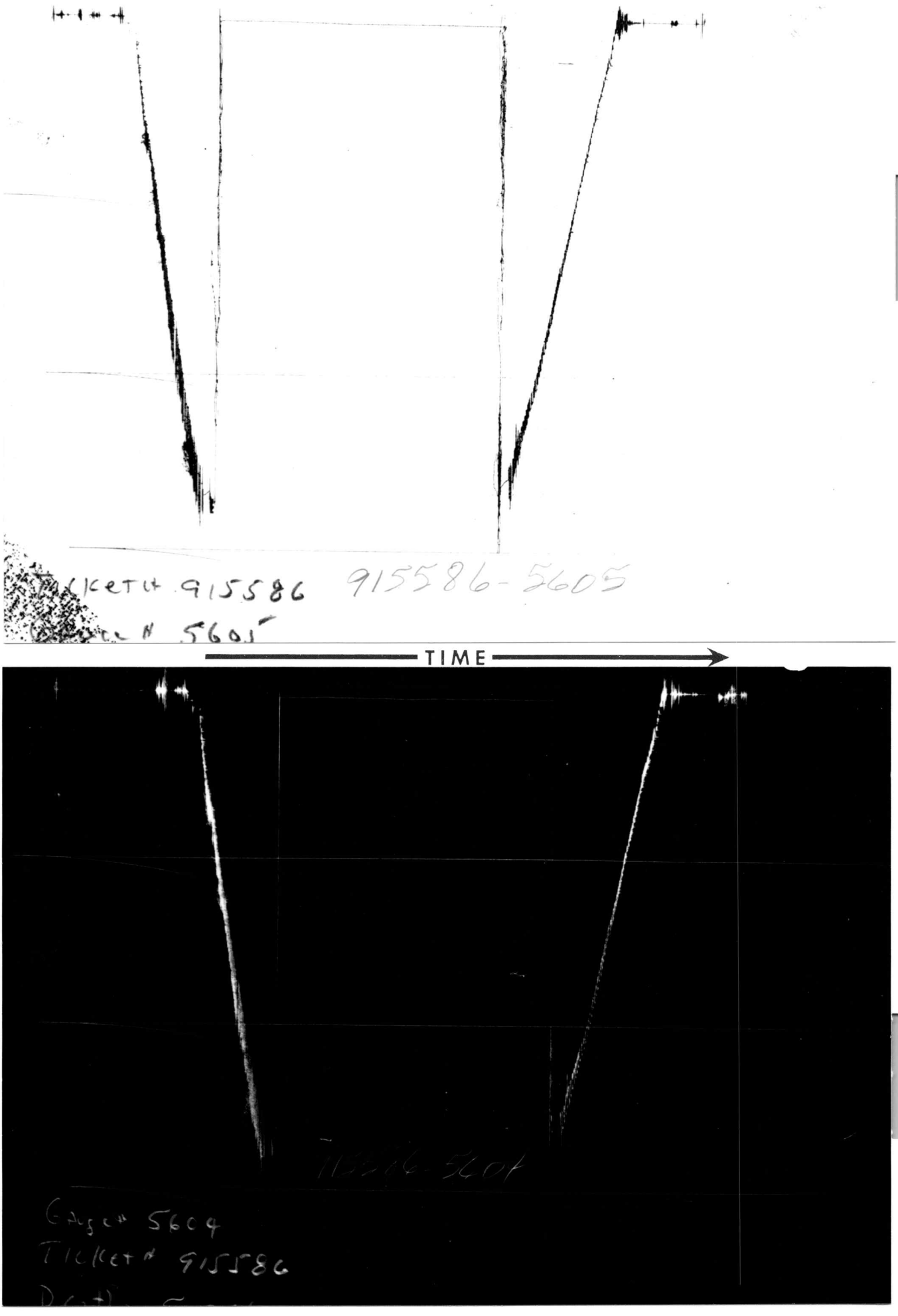
PRODUCTION TEST DATA

LITTLE'S 96672 5M 8/74

TICKET NO. 915586

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Drill Collars				
Reversing Sub	5 5/8"	2"	1'	
Water Cushion Valve	6"	2"	1' X OVER	
Drill Pipe	4 1/2"	3.826"	4603'	
Drill Collars	6 1/2"	2.25"	443'	
Handling Sub & Choke Assembly				
Dual CIP Valve	5 3/4"	.87"	6'	5053'
Dual CIP Sampler				
Hydro-Spring Tester	5"	.75"	5'	5058'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	3.06"	4'	5060'
Hydraulic Jar	5"	1.5"	5'	
VR Safety Joint	5"	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly				
Distributor				
Packer Assembly	6 3/4"	1.53"	6'	5075'
Flush Joint Anchor	5"	2.36"	18'	
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"	2.25"	1'	5095' TEMP.
Blanked-Off B.T. Running Case	5"	3.06"	4'	5096'
Total Depth				5100'

EQUIPMENT DATA



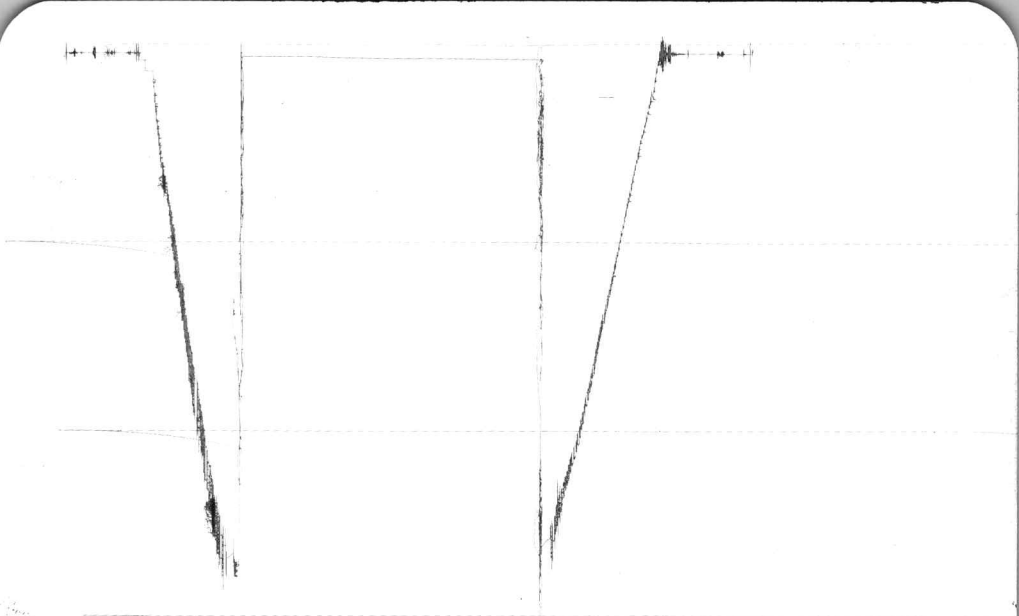
Each Horizontal Line Equal to 1000 p.s.i.

TEMPERATURE
RECORDER
CHART

-111°

915586

10° each circle

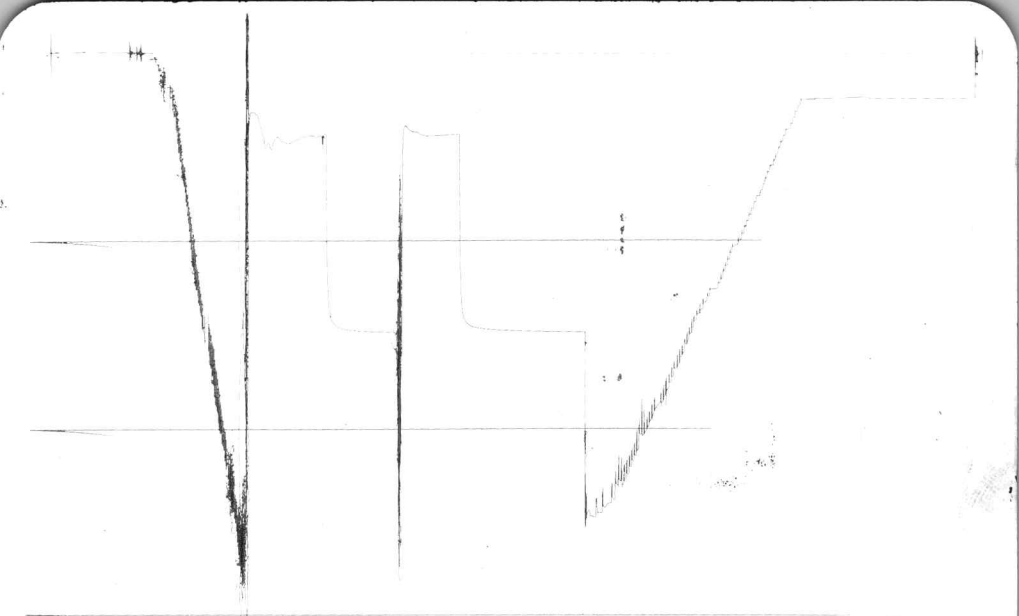


915586-5605

915586

5605

Depth 5060



915584-5605

Gage II
5605 Depth. 4849' Ticket # 915584