

CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

7-75-20W
C SE-SW

Test No. 1

Ticket No. 538

Formation Testing Data

Date 9/14/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
OWNER IMPERIAL OIL OF KANSAS, INC.			CONTRACTOR CO. TOOLS		
Truck Called Out Date 3:30 P.M.	On Location Date 4:15 P.M.	Job Began Date 5:00 P.M.	Job Completed Date P.M.		

Elevation	2132 KB	Initial Closed In Time	30	Min.
Total Depth	3288	Tool Open Flow Period	5 - 60	Min.
Hole Size	7 7/8	Final Closed In Time	30	Min.
Length Anchor	23'	Type Pressure Recorders Used		
Formation Tested	TOPEKA	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3265	Field		Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure	1700	1700
Size Drill Pipe	4 1/2	Initial Closed In Pressure	1140	1140
Mud Weight	10.2	Initial Flow Pressure	170	170
Viscosity	34	Final Flow Pressure	170	170
Size Bottom Choke	3/4 "	Final Closed In Pressure	1140	1140
Size Surface Choke	1 "	Final Hydro Mud Pressure	1700	1700

CONSOLIDATED-SALINA-39067-600 SHS-6-60

Remarks:

STRONG BLOW THROUGH OUT TEST

REC. 670' SALT WATER WITH SPECKS OF OIL

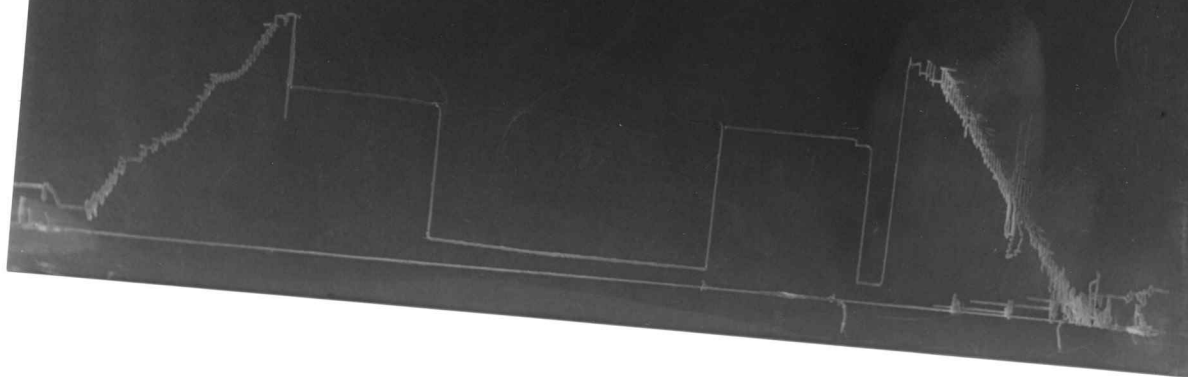
THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Chemical & Technical Services, Inc., shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Chemical & Technical Services, Inc., nor whether resulting from the acts or omissions of Chemical & Technical Services, Inc., or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

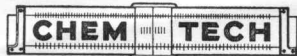
It is expressly understood and agreed that Chemical & Technical Services, Inc., shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Chemical & Technical Services Inc., has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

Tester ALBERT N. PARKS
Date 9/14/60 Time 5:00 P.M. By ARTHUR HEJNY

Owner, Operator or his Agent

02/11/50
Ticket # 538





CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 2

Ticket No. 539

Formation Testing Data

Date 9/15/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

CONTRACTOR

IMPERIAL OIL OF KANSAS, INC.

CO. TOOLS

Truck Called Out Date 5:00 A.M.	On Location Date 5:45 A.M.	Job Began Date 6:20 A.M.	Job Completed Date P.M.
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Elevation	2132 KB	Initial Closed In Time	30	Min.
Total Depth	3354	Tool Open Flow Period	5 - 30	Min.
Hole Size	7 7/8	Final Closed In Time	30	Min.
Length Anchor	35'	Type Pressure Recorders Used		
Formation Tested	TORONTO	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3319	Field		Office Corrected
Size Packer	6 3/4"	Initial Hydro Mud Pressure	1730	1730
Size Drill Pipe	4 1/2	Initial Closed In Pressure	1190	1190
Mud Weight	10.2	Initial Flow Pressure	0	0
Viscosity	34	Final Flow Pressure	0	0
Size Bottom Choke	3/4"	Final Closed In Pressure	1190	1190
Size Surface Choke	1"	Final Hydro Mud Pressure	1730	1730

CONSOLIDATED-SALINA-39057-600 SHS-6-60

Remarks:

WEAK BLOW DEAD IN 1 MIN.

REC. 15' MUD WITH SPECKS OF OIL

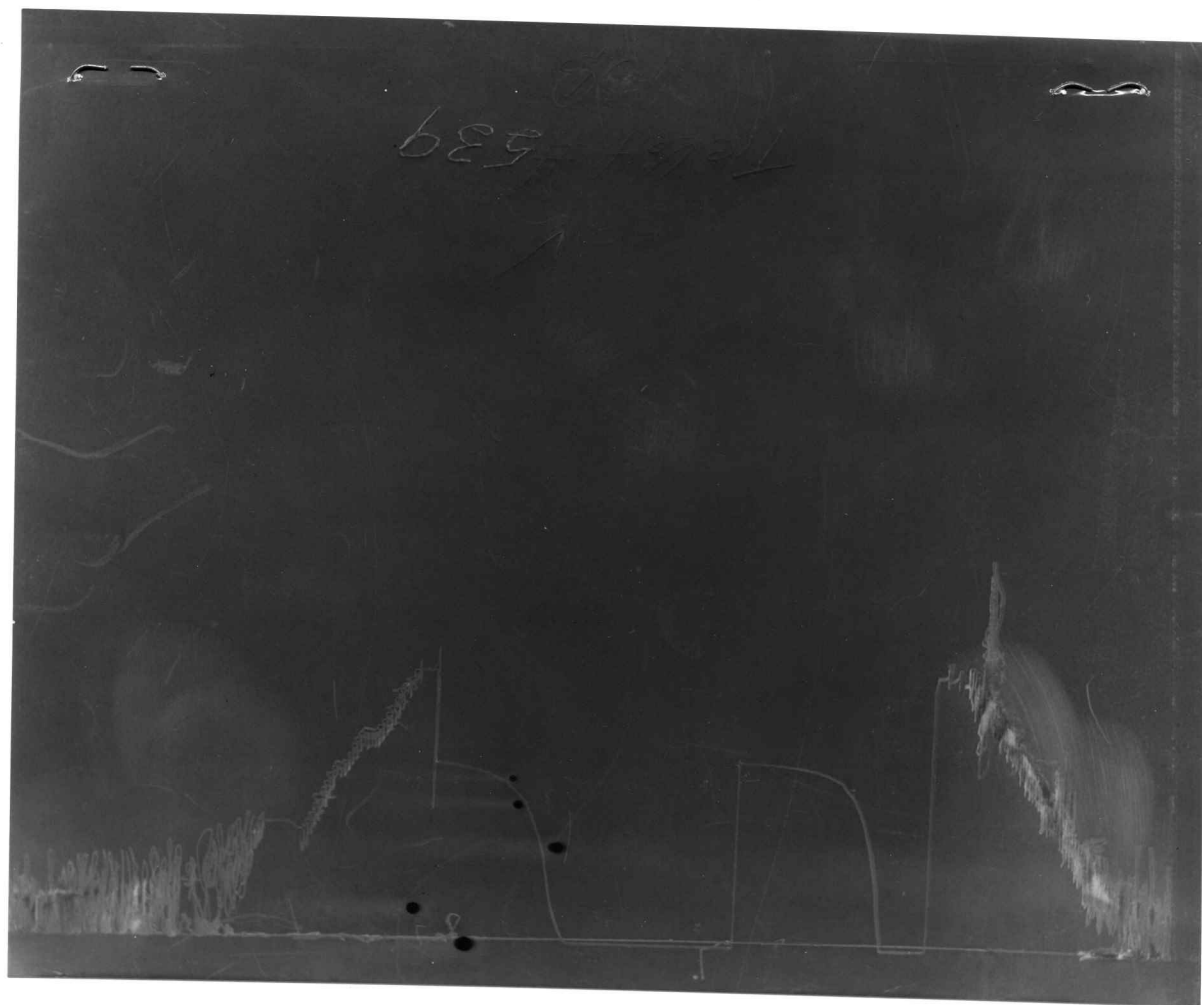
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Tester ALBERT N. PARKS

Date 9/15/60	Time 6:20	A.M. P.M.	By WAYNE SHIVELY
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Owner, Operator or his Agent





CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 3

Ticket No. 540

Formation Testing Data

Date 9/15/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

IMPERIAL OIL OF KANSAS, INC.

CONTRACTOR

CO. TOOLS

Truck Called Out Date 2:00 P.M.	On Location Date 2:30 P.M.	Job Began Date 3:00 P.M.	Job Completed Date 7:30 P.M.
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Elevation	2131 DF	Initial Closed In Time	30	Min.
Total Depth	3370	Tool Open Flow Period	5 - 30	Min.
Hole Size	7 7/8	Final Closed In Time	20	Min.
Length Anchor	18'	Type Pressure Recorders Used		
Formation Tested	LANSING	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3352	Field		Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure	1790	1790
Size Drill Pipe	4 1/2	Initial Closed In Pressure	1200	1200
Mud Weight	10.0	Initial Flow Pressure	0	0
Viscosity	42	Final Flow Pressure	0	0
Size Bottom Choke	3/4"	Final Closed In Pressure	1120	1120
Size Surface Choke	1"	Final Hydro Mud Pressure	1790	1790

CONSOLIDATED-SALINA-39067-600 SHS-6-60

Remarks:

NO BLOW

REC. 20' MUD

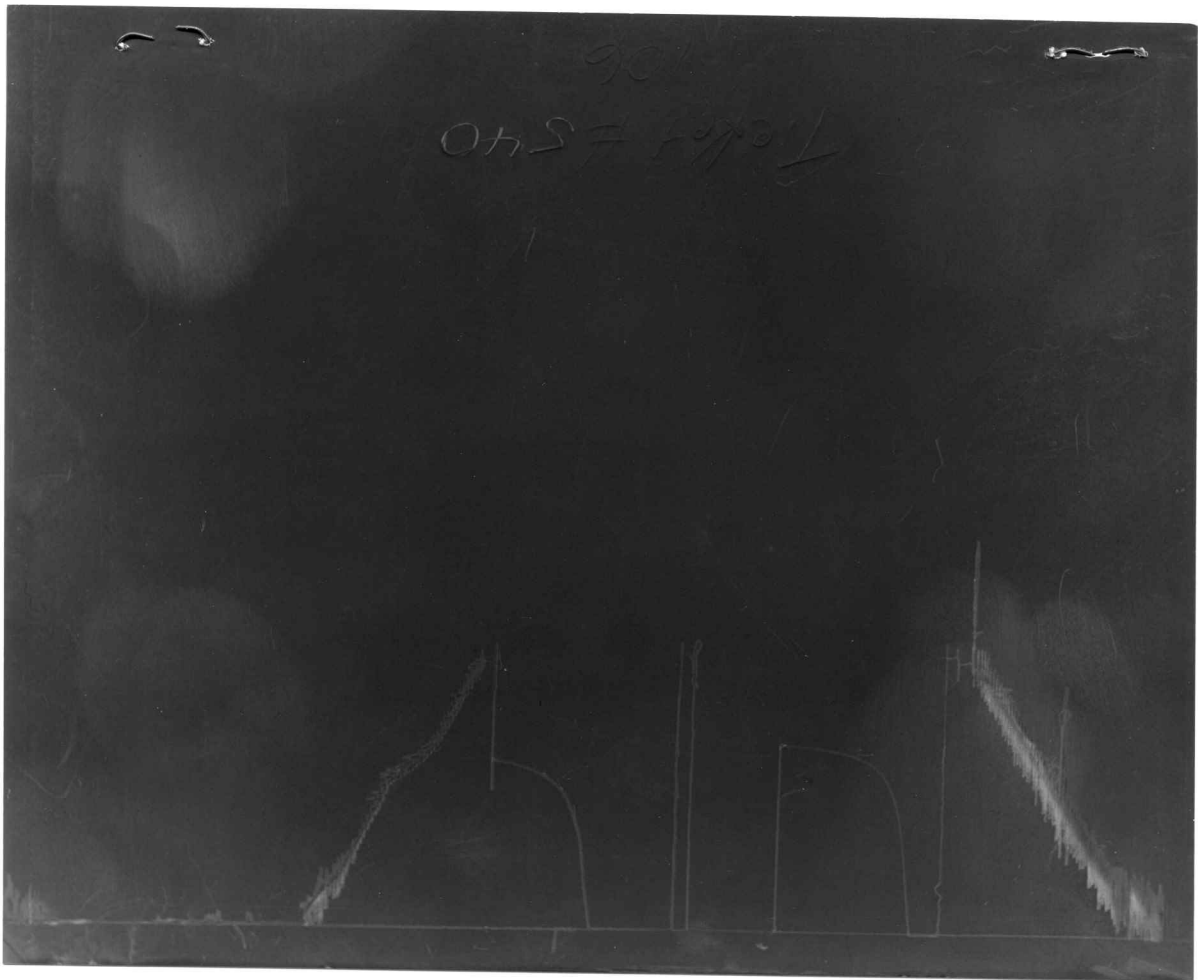
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Tester ALBERT N. PARKS

Date 9/15/60	Time 3:00 P.M.	By BERT SCHMIDT
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Owner, Operator or his Agent





CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 4

Ticket No. 541

Formation Testing Data

Date 9/16/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

CONTRACTOR

IMPERIAL OIL OF KANSAS, INC.

CO. TOOLS

Truck Called Out	On Location	Job Began	Job Completed
Date 3:30 A.M. P.M.	Date 4:00 A.M. P.M.	Date 4:45 A.M. P.M.	Date 10:00 A.M. P.M.

Elevation	2131 DF	Initial Closed In Time	30	Min.
Total Depth	3408	Tool Open Flow Period	5 - 60	Min.
Hole Size	7 7/8	Final Closed In Time	30	Min.
Length Anchor	25'	Type Pressure Recorders Used		
Formation Tested	LANSING	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3383	Field		Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure	1800	1800
Size Drill Pipe	4 1/2	Initial Closed In Pressure	1220	1220
Mud Weight	9.6	Initial Flow Pressure	100	100
Viscosity	64	Final Flow Pressure	350	350
Size Bottom Choke	3/4"	Final Closed In Pressure	1150	1150
Size Surface Choke	1"	Final Hydro Mud Pressure	1800	1800

CONSOLIDATED-SALINA-39057-600 SHS-6-60

Remarks:

STRONG BLOW THROUGH OUT TEST

REC. 1900' GAS 1010' CLEAN OIL 38' GRAVITY

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Chemical & Technical Services, Inc., shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Chemical & Technical Services, Inc., nor whether resulting from the acts or omissions of Chemical & Technical Services, Inc., or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

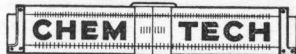
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Tester ALBERT N. PARKS

Date 9/16/60	Time 4:45 A.M. P.M.	By WAYNE SHIVELY
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Owner, Operator or his Agent





CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 5

Ticket No. 542

Formation Testing Data

Date 9/16/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

CONTRACTOR

IMPERIAL OIL OF KANSAS, INC.

CO. TOOLS

Truck Called Out Date 2:30 P.M.	On Location Date 3:30 P.M.	Job Began Date 4:30 P.M.	Job Completed Date 9:30 P.M.
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Elevation	2131 DF	Initial Closed In Time	30	Min.
Total Depth	3425	Tool Open Flow Period	5 - 60	Min.
Hole Size	7 7/8	Final Closed In Time	30	Min.
Length Anchor	19'	Type Pressure Recorders Used		
Formation Tested	LANSING	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3406	Field		Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure	1750	1750
Size Drill Pipe	4 1/2	Initial Closed In Pressure	1200	1200
Mud Weight	9.6	Initial Flow Pressure	0	0
Viscosity	53	Final Flow Pressure	0	0
Size Bottom Choke	3/4 "	Final Closed In Pressure	1050	1050
Size Surface Choke	1 "	Final Hydro Mud Pressure	1750	1750

CONSOLIDATED-SALINA-39067-600 SHS-6-60

Remarks:

STRONG BLOW THROUGH OUT TEST

REC. 30' GAS 60' VERY HEAVY OIL CUT MUD 160' MUDDY OIL

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Chemical & Technical Services, Inc., shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Chemical & Technical Services, Inc., nor whether resulting from the acts or omissions of Chemical & Technical Services, Inc., or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

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Tester ALBERT N. PARKS

Date
9/16/60

Time 4:30

~~A.M.~~
P.M.

By

ARTHUR HEJNY

Owner, Operator or his Agent





CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 6

Ticket No. 543

Formation Testing Data

Date 9/17/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

IMPERIAL OIL OF KANSAS, INC.

CONTRACTOR

CO. TOOLS

Truck Called Out	On Location	Job Began	Job Completed
Date A.M. P.M.	Date A.M. P.M.	Date A.M. P.M.	Date A.M. P.M.
		2:45	8:00

Elevation	2131 DF	Initial Closed In Time	30	Min.
Total Depth	3436	Tool Open Flow Period	5 - 60	Min.
Hole Size	7 7/8	Final Closed In Time	30	Min.
Length Anchor	11'	Type Pressure Recorders Used		
Formation Tested	LANSING	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3425	Field		Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure	1820	1820
Size Drill Pipe	4 1/2	Initial Closed In Pressure	1300	1300
Mud Weight	9.6	Initial Flow Pressure	80	80
Viscosity	53	Final Flow Pressure	300	300
Size Bottom Choke	3/4"	Final Closed In Pressure	1260	1260
Size Surface Choke	1"	Final Hydro Mud Pressure	1820	1820

CONSOLIDATED-SALINA-39057-600 SHS-6-60

Remarks:

STRONG BLOW THROUGH OUT TEST

REC. 170' GAS 300' OIL 290' MUDDY OIL 150' SALT WATER

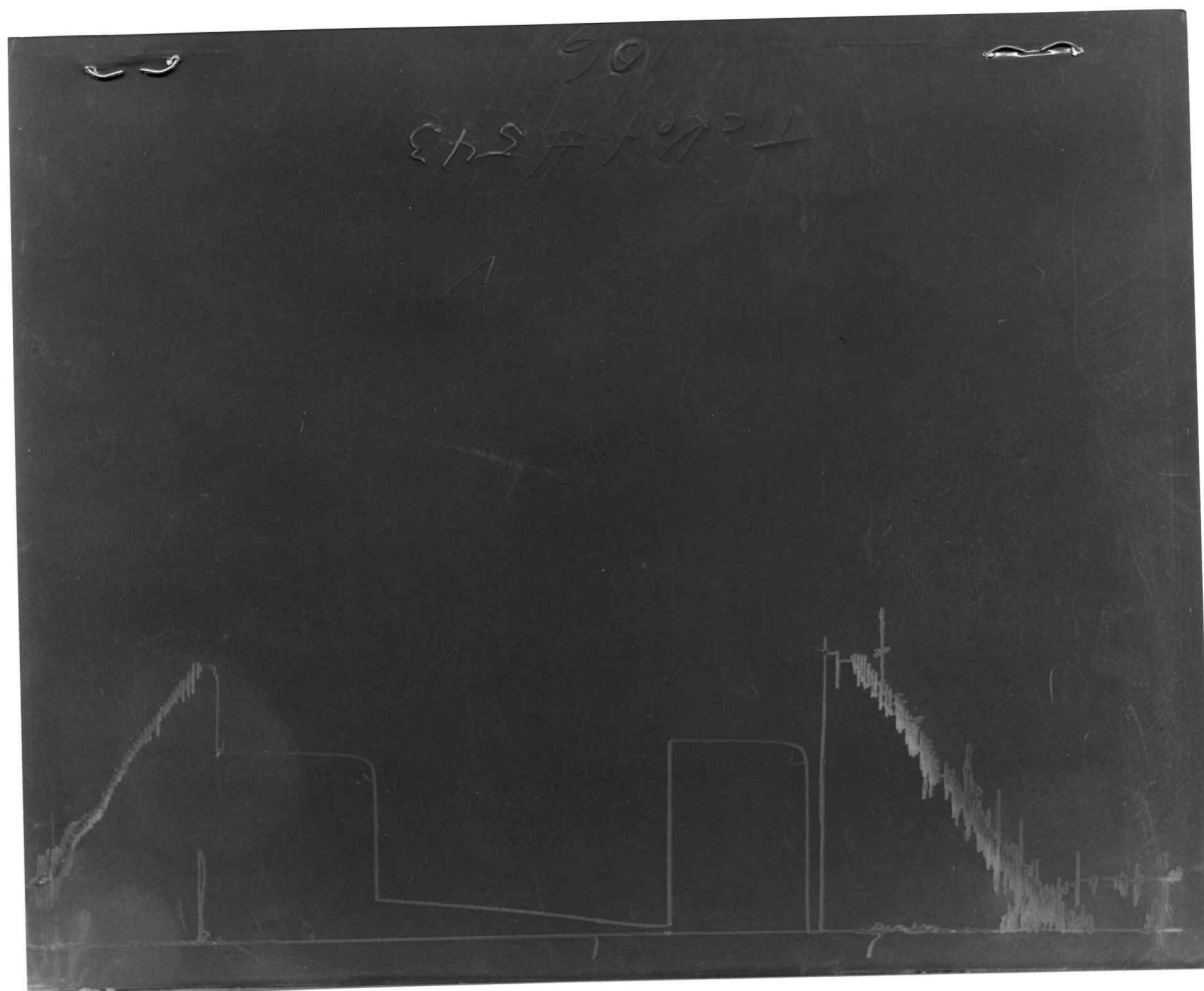
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Tester ALBERT N. PARKS

Date 9/17/60	A.M. P.M.	Time 2:45	By BURTON W. SCHMIDT
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Owner, Operator or his Agent





CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 7

Formation Testing Data

Ticket No. 544

Date 9/17/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

CONTRACTOR

IMPERIAL OIL OF KANSAS, INC.

CO. TOOLS

Truck Called Out	On Location	Job Began	Job Completed
Date A.M. P.M.	Date A.M. P.M.	Date A.M. P.M.	Date A.M. P.M.
		1:45	8:00

Elevation	2131 DF	Initial Closed In Time	30	Min.
Total Depth	3444	Tool Open Flow Period	5 - 120	Min.
Hole Size	7 7/8	Final Closed In Time	30	Min.
Length Anchor	5'	Type Pressure Recorders Used		
Formation Tested	LANSING	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	M&T	H&T	
Bottom Packer Depth	3439	Field		Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure	1730	1730
Size Drill Pipe	4 1/2	Initial Closed In Pressure	1220	1220
Mud Weight	9.2	Initial Flow Pressure	0	0
Viscosity	44	Final Flow Pressure	200	200
Size Bottom Choke	3/4"	Final Closed In Pressure	1110	1110
Size Surface Choke	1"	Final Hydro Mud Pressure	1720	1720

CONSOLIDATED-SALINA-39067-600 SHS-6-60

Remarks:

FAIR BLOW THROUGH OUT TEST

REC. 60' GAS 346' OIL CUT SALT WATER 150' SALTWATER

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Chemical & Technical Services, Inc., shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Chemical & Technical Services, Inc., nor whether resulting from the acts or omissions of Chemical & Technical Services, Inc., or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

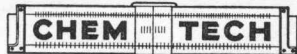
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Tester ALBERT N. PARKS

Date 9/17/60	Time 2:00	A.M. P.M.	By ARTHUR HEJNY
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Owner, Operator or his Agent





CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 8

Ticket No. 545

Formation Testing Data

Date 9/18/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

CONTRACTOR

IMPERIAL OIL OF KANSAS, INC.

CO. TOOLS

Truck Called Out	On Location	Job Began	Job Completed
Date 11:00 A.M. P.M.	Date 11:45 A.M. P.M.	Date 11:55 A.M. P.M.	Date 5:00 A.M. P.M.

Elevation	2131 DF	Initial Closed In Time	30	Min.
Total Depth	3458	Tool Open Flow Period	5 - 60	Min.
Hole Size	7 7/8	Final Closed In Time	30	Min.
Length Anchor	8'	Type Pressure Recorders Used		
Formation Tested	LANSING	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3450	Field		Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure		
Size Drill Pipe	4 1/2	Initial Closed In Pressure		
Mud Weight	9.2	Initial Flow Pressure	NO PRESSURES	
Viscosity	44	Final Flow Pressure		
Size Bottom Choke	3/4"	Final Closed In Pressure		
Size Surface Choke	1"	Final Hydro Mud Pressure		

CONSOLIDATED-SALINA-39057-600 SHS-6-60

Remarks:

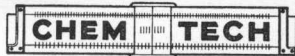
PLUGGED TOOL DUE TO POOR MUD

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Tester ALBERT N. PARKS
Date 9/18/60 Time 2:30 A.M.
P.M. By

Owner, Operator or his Agent



CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 9

Ticket No. 546

Formation Testing Data

Date 9/18/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

CONTRACTOR

IMPERIAL OIL OF KANSAS, INC.

CO. TOOLS

Truck Called Out Date 10:30 P.M.	On Location Date 11:30 P.M.	Job Began Date 12:00 P.M.	Job Completed Date 5:00 P.M.
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Elevation	2131 DF	Initial Closed In Time		Min.
Total Depth	3555	Tool Open Flow Period	5 - 30	Min.
Hole Size	7 7/8	Final Closed In Time	90	Min.
Length Anchor	88'	Type Pressure Recorders Used		
Formation Tested	LANSING	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3467		Field	Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure	1830	1830
Size Drill Pipe	4 1/2	Initial Closed In Pressure	0	0
Mud Weight	9.5	Initial Flow Pressure	0	00
Viscosity	44	Final Flow Pressure	80	80
Size Bottom Choke	3/4"	Final Closed In Pressure	1200	1200
Size Surface Choke	1"	Final Hydro Mud Pressure	1830	1830

CONSOLIDATED-SALINA-39057-600 SHS-6-60

Remarks:

WEAK BLOW 20 MIN.

REC. 125' OIL CUT MUD

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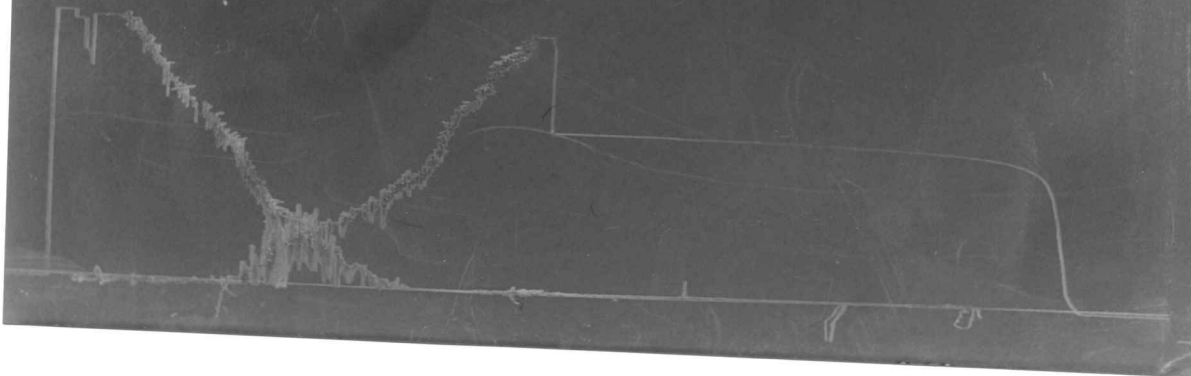
Tester ALBERT N. PARKS

Date 9/18/60 Time 2:00 A.M.
-P.M.- By

Owner, Operator or his Agent

130

12/15/54





CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 11

Ticket No. 547

Formation Testing Data

Date 9/19/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

IMPERIAL OIL OF KANSAS, INC.

CONTRACTOR

CO. TOOLS

Truck Called Out Date 4:30 P.M.	On Location Date 5:15 P.M.	Job Began Date 7:00 P.M.	Job Completed Date 1:00 P.M.
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Elevation	2131 DF	Initial Closed In Time	30	Min.
Total Depth	3599	Tool Open Flow Period	5 - 120	Min.
Hole Size	7 7/8	Final Closed In Time	30	Min.
Length Anchor	16'	Type Pressure Recorders Used		
Formation Tested	MARMANTON	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3583	Field		Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure	1850	1850
Size Drill Pipe	4 1/2	Initial Closed In Pressure	850	850
Mud Weight	9.6	Initial Flow Pressure	0	0
Viscosity	52	Final Flow Pressure	120	120
Size Bottom Choke	3/4"	Final Closed In Pressure	230	230
Size Surface Choke	1"	Final Hydro Mud Pressure	1790	1790

CONSOLIDATED-SALINA-39067-600 SHS-6-60

Remarks:

FAIR BLOW THROUGH TEST

REC. 340' WATER

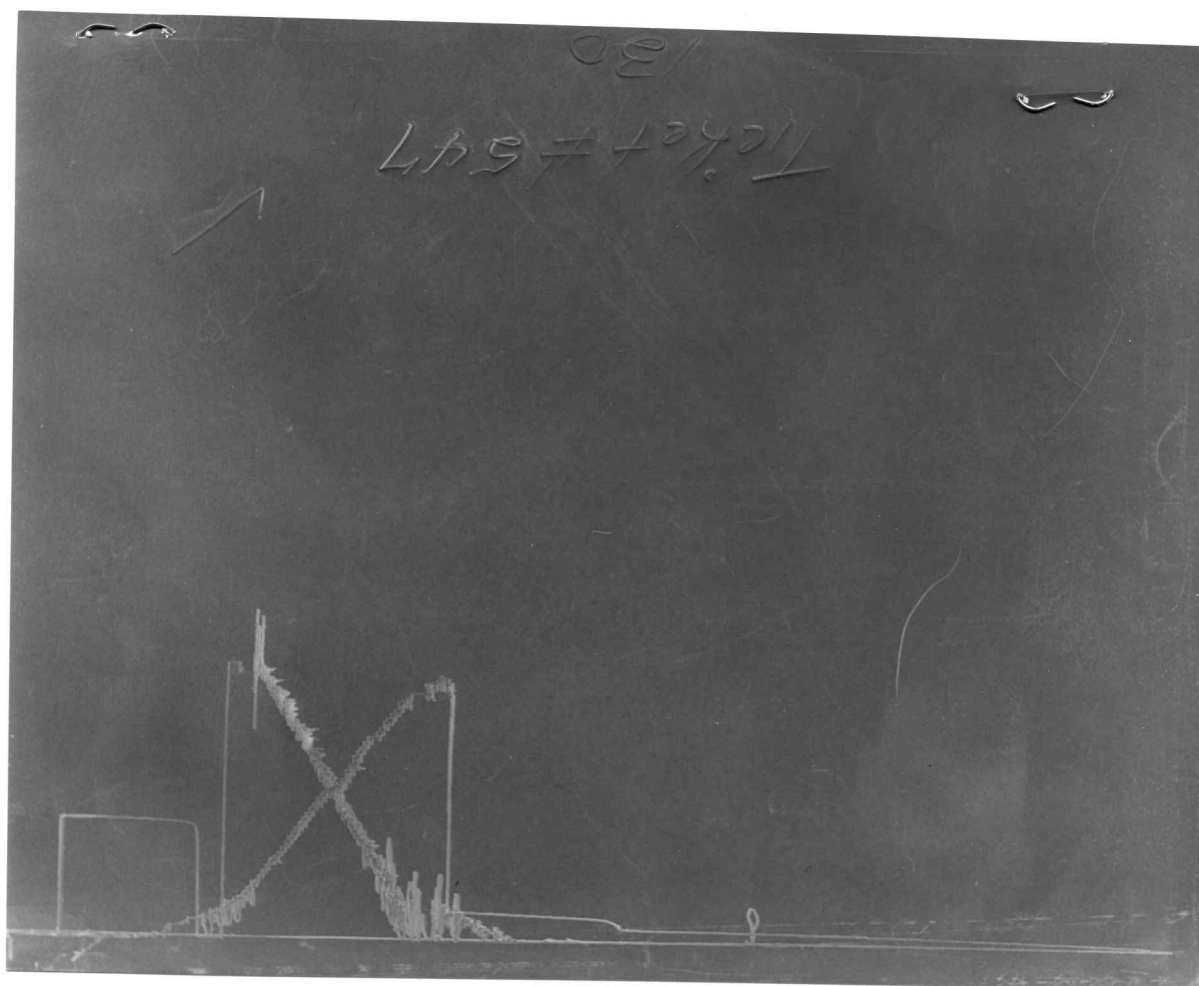
THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Chemical & Technical Services, Inc., shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Chemical & Technical Services, Inc., nor whether resulting from the acts or omissions of Chemical & Technical Services, Inc., or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

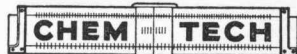
It is expressly understood and agreed that Chemical & Technical Services, Inc., shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Chemical & Technical Services Inc., has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

Tester ALBERT N. PARKS

Date 9/19/60	Time 8:00 P.M.	By JACK C. WALKER
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Owner, Operator or his Agent





CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 12

Ticket No. 548

Formation Testing Data

Date 9/20/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

CONTRACTOR

IMPERIAL OIL OF KANSAS, INC.

CO. TOOLS

Truck Called Out Date 6:30 A.M.	On Location Date 7:00 P.M.	Job Began Date 8:30 P.M.	Job Completed Date 12:30 P.M.
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Elevation	2131 DF	Initial Closed In Time	20	Min.
Total Depth	3611	Tool Open Flow Period	5 - 60	Min.
Hole Size	7 7/8	Final Closed In Time	20	Min.
Length Anchor	2'	Type Pressure Recorders Used		
Formation Tested	ARBUCKLE	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3609	Field		Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure	1940	1940
Size Drill Pipe	4 1/2	Initial Closed In Pressure	900	900
Mud Weight	9.6	Initial Flow Pressure	0	0
Viscosity	52	Final Flow Pressure	0	0
Size Bottom Choke	3/4"	Final Closed In Pressure	9	0
Size Surface Choke	1"	Final Hydro Mud Pressure	1920	1920

CONSOLIDATED-SALINA-39067-600 SHS-6-60

Remarks:

WEAK BLOW DEAD IN 15 MIN.

REC. 4' MUD CUT OIL 1' CLEAN OIL

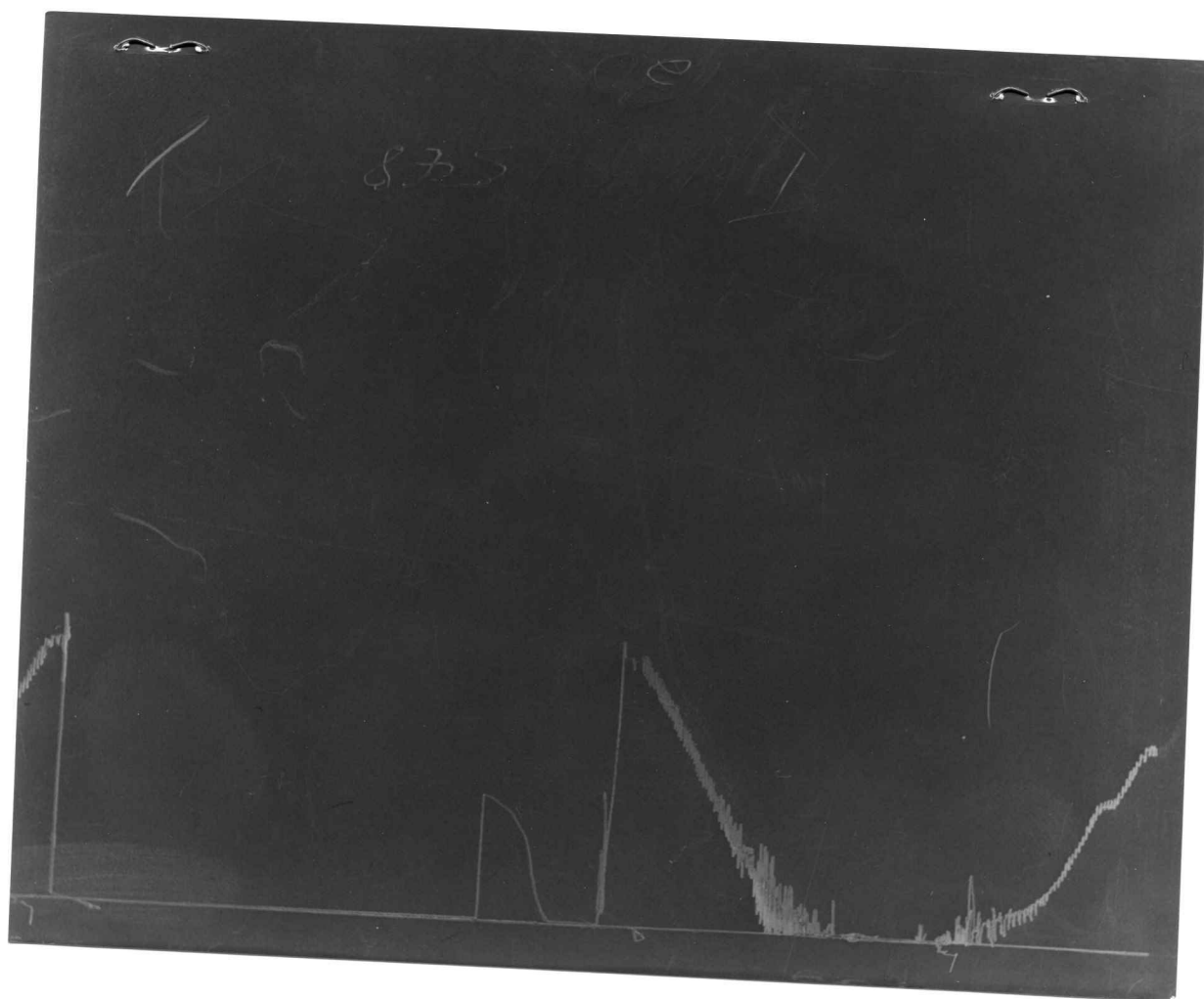
THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Chemical & Technical Services, Inc., shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Chemical & Technical Services, Inc., nor whether resulting from the acts or omissions of Chemical & Technical Services, Inc., or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Chemical & Technical Services, Inc., shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Chemical & Technical Services Inc., has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

Tester ALBERT N. PARKS

Date 9/20/60 Time 10:00 A.M. P.M. By WAYNE SHIVELY

Owner, Operator or his Agent





CHEMICAL & TECHNICAL SERVICES, INC.

P. O. Box 728
HILL CITY, KANSAS

Test No. 13

Ticket No. 549

Formation Testing Data

Date 9/20/60	Lease & Well No. WESTERN AUTO #1	Location	County ROOKS	State KANSAS	Field
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OWNER

IMPERIAL OIL OF KANSAS, INC.

CONTRACTOR

CO. TOOLS

Truck Called Out	On Location	Job Began	Job Completed
Date 4:30 P.M.	Date 5:00 P.M.	Date 5:30 P.M.	Date 11:30 P.M.

Elevation	2131 DF	Initial Closed In Time	30	Min.
Total Depth	3616	Tool Open Flow Period	5	Min.
Hole Size	7 7/8	Final Closed In Time	30	Min.
Length Anchor	6'	Type Pressure Recorders Used		
Formation Tested	ARBUCKLE	Top Gauge	Bottom Gauge	
Top Packer Depth	NONE	H&T	H&T	
Bottom Packer Depth	3610	Field		Office Corrected
Size Packer	6 3/4	Initial Hydro Mud Pressure	1800	1800
Size Drill Pipe	4 1/2	Initial Closed In Pressure	1020	1020
Mud Weight	9.7	Initial Flow Pressure	0	0
Viscosity	47	Final Flow Pressure	0	0
Size Bottom Choke	3/4	Final Closed In Pressure	740	740
Size Surface Choke	1"	Final Hydro Mud Pressure	1810	1810

CONSOLIDATED-SALINA-39067-600 SHS-6-60

Remarks:

WEAK BLOW THROUGH OUT TEST

REC. 90' CLEAN OIL 30 GRAVITY 60' HEAVY OIL CUT MUD

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Chemical & Technical Services, Inc., shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Chemical & Technical Services, Inc., nor whether resulting from the acts or omissions of Chemical & Technical Services, Inc., or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

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Tester ALBERT N. PARKS

Date 9/20/60 Time 5:30 P.M. By JACK C. WALKER

Owner, Operator or his Agent

