Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Imperial Oil Company Lease & Well No. Davis #2-D

Elevation 1488 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 23798

Date 7-29-75 Sec. 7 Twp. 35S Range 14W County Barber State Kansas

Test Approved by Richard E. Roby Western Representative Bob Anthony

Formation Test No. 1 O.K. X Misrun - Interval Tested From 4839' to 4865' Total Depth 4865'

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 4834 Ft. Size 6 3/4 Bottom Packer Depth 4839 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 26 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4861 Ft. Clock No. 6899 Depth 4864 Ft. Clock No. 6895

Top Make Kuster Cap. 4000 No. 3660 Inside / Outside Bottom Make Kuster Cap. 4000 No. 3659 Inside / Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside / Outside Depth - Ft. Rec. No. - Clock No. - Inside / Outside

Time Set Packer 4:42 M

Tool Open I.F.P. From 4:45 M. to 5:15 M. - Hr. 30 Min. From (B) 32 P.S.I. To (C) 32 P.S.I.

Tool Closed I.C.I.P. From 5:15 M. to 6:15 M. 1 Hr. - Min (D) 38 P.S.I.

Tool Open F.F.P. From 6:15 M. to 6:45 M. - Hr. 30 Min. From (E) 33 P.S.I. To (F) 33 P.S.I.

Tool Closed F.C.I.P. From 6:45 M. to 7:45 M. 1 Hr. - Min. (G) 38 P.S.I.

Initial Hydrostatic Pressure (A) 2458 P.S.I. Final Hydrostatic Pressure (H) 2444 P.S.I. Maximum Temp. 103

INFORMATION

BLOW Very weak blow, died 10 minutes after tool opened.

Did Well Flow - Yes X No Recovery Total Ft. 5' of slightly oil cut drilling mud

Reversed Out - Yes X No Mud Type Starch Viscosity 43 Weight 9.2 Water Loss 8.8 cc. Chlorides 55,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 3½IF In. Make WTC Ser. No. 405

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Red Tiger Drlg. Co. Length Drill Pipe? 4811 Ft. I.D. Drill Pipe 3.7 In. Tool Joint Size 4½FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 54 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 7-29-75 Test Ticket No. 28798

Recorder No. 3660 Capacity 4000 Location 4861 Ft.

Clock No. 6899 Elevation 1488 ground level Well Temperature 103 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	2458 P.S.I.	Open Tool	4:42	M		
B	First Initial Flow Pressure	32 P.S.I.	First Flow Pressure	30	Mins.	60	Mins.
C	First Final Flow Pressure	32 P.S.I.	Initial Closed-in Pressure	60	Mins.	60	Mins.
D	Initial Closed-in Pressure	38 P.S.I.	Second Flow Pressure	30	Mins.	30	Mins.
E	Second Initial Flow Pressure	33 P.S.I.	Final Closed-in Pressure	60	Mins.	60	Mins.
F	Second Final Flow Pressure	33 P.S.I.					
G	Final Closed-in Pressure	38 P.S.I.					
H	Final Hydrostatic Mud	2444 P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
x of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	32
P 2 5	32
P 3 10	32
P 4 15	32
P 5 20	32
P 6 25	32
P 7 30	32
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

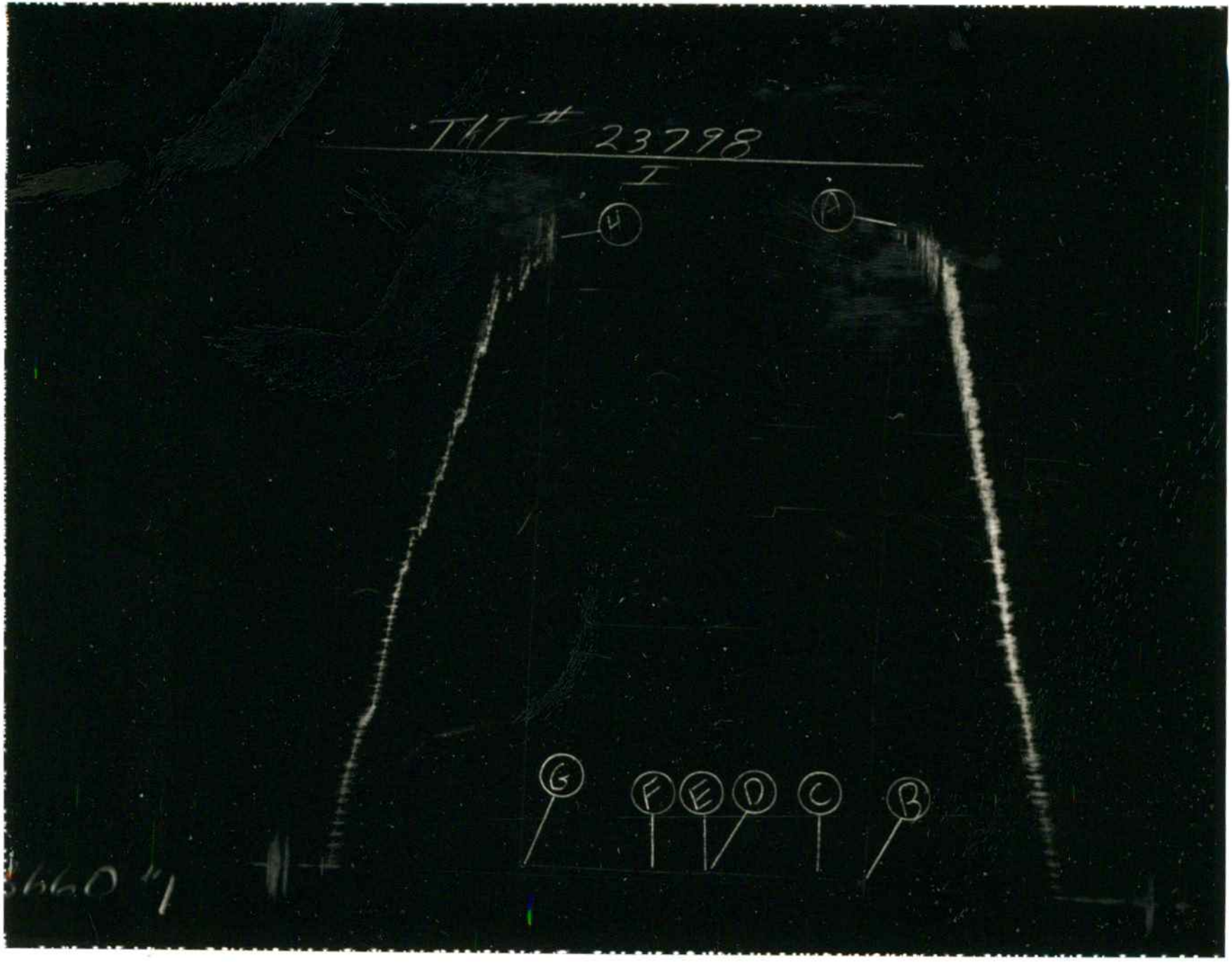
Point Minutes	Press.
0	32
3	32
6	32
9	32
12	33
15	33
18	33
21	34
24	34
27	34
30	35
33	35
36	35
39	36
42	36
45	36
48	37
51	37
54	37
57	38
60	38

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	33
5	33
10	33
15	33
20	33
25	33
30	33

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	33
3	33
6	33
9	34
12	34
15	34
18	35
21	35
24	35
27	36
30	36
33	36
36	37
39	37
42	37
45	37
48	38
51	38
54	38
57	38
60	38


TAT # 23798
I
H
A
G
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E
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C
B

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Imperial Oil Co,pany Lease & Well No. Davis #2-D

Elevation 1488 ground Formation Mississippi Effective Pay - Ft. Ticket No. 23799

Date 7-30-75 Sec. 7 Twp. 35S Range 14W County Barber State Kansas

Test Approved by Richard E. Roby Western Representative Bob Anthony

Formation Test No. 2 O.K. - Misrun X Interval Tested From 4866' to 4892' Total Depth 4892'

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 4861 Ft. Size 6 3/4 Bottom Packer Depth 4866 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 26 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4888 Ft. Clock No. 6899 Depth 4891 Ft. Clock No. 6895

Top Make Kuster Cap. 4000 No. 3660 Inside Outside Bottom Make Kuster Cap. 4000 No. 3659 Inside Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 10:25 P M

Tool Open I.F.P. From 10:30P M. to 11:30P M. 1 Hr. - Min. From (B) 63 P.S.I. To (C) 71 P.S.I.

Tool Closed I.C.I.P. From 11:30P M. to 1:30P M. 2 Hr. - Min (D) 1108 P.S.I.

Tool Open F.F.P. From - M. to - M. - Hr. - Min. From (E) - P.S.I. To (F) - P.S.I.

Tool Closed F.C.I.P. From - M. to - M. - Hr. - Min. (G) - P.S.I.

Initial Hydrostatic Pressure (A) 2569 P.S.I. Final Hydrostatic Pressure (H) 2456 P.S.I. Maximum Temp. 115

INFORMATION

BLOW Fair blow throughout test.

Did Well Flow - Yes X No Recovery Total Ft. Misrun, packer failure on final flow period.

Reversed Out - Yes X No Mud Type Starch Viscosity 54 Weight 9.0 Water Loss 7.6 cc. Chlorides 52,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 3 1/2 In. Make WTC Ser. No. 405

Dual Packer yes Did Packers Hold? no Did Tool Plug? no Where? -

DRILLING CONTRACTOR Red Tiger Drlg. Co. Length Drill Pipe? 4838 Ft. I.D. Drill Pipe 3.7 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 54 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 7-30-75 Test Ticket No. 23799

Recorder No. 3660 Capacity 4000 Location 4888 Ft.

Clock No. 6899 Elevation 1488 Ground Level Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2569 P.S.I.	Open Tool	10:25 P. M.	
B First Initial Flow Pressure	63 P.S.I.	First Flow Pressure	60 Mins.	60 Mins.
C First Final Flow Pressure	71 P.S.I.	Initial Closed-in Pressure	120 Mins.	123 Mins.
D Initial Closed-in Pressure	1108 P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	Not taken P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	" " P.S.I.			
G Final Closed-in Pressure	" " P.S.I.			
H Final Hydrostatic Mud	2456 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 41 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: Inc.
of mins. and a
final inc. of Min.

Final Shut-In
Breakdown: Inc.
of mins. and a
final inc. of Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	Could not read for the first 10 min.	0	Could not read for the first 18 minutes.	Not taken		Not taken	
P 2 5	63 Flushed tool	3					
P 3 10	65	6					
P 4 15	65	9					
P 5 20	65	12					
P 6 25	65	15					
P 7 30	65	18					
P 8 35	65	21	328				
P 9 40	65	24	360				
P10 45	65	27	389				
P11 50	67	30	423				
P12 55	71	33	451				
P13		36	475				
P14		39	500				
P15		42	524				
P16		45	548				
P17		48	571				
P18		51	595				
P19		54	617				
P20		57	641				

WTC - 4

Continued on next page

WESTERN TESTING CO., INC.

Pressure Data

Date 7-30-75 Test Ticket No. 23799

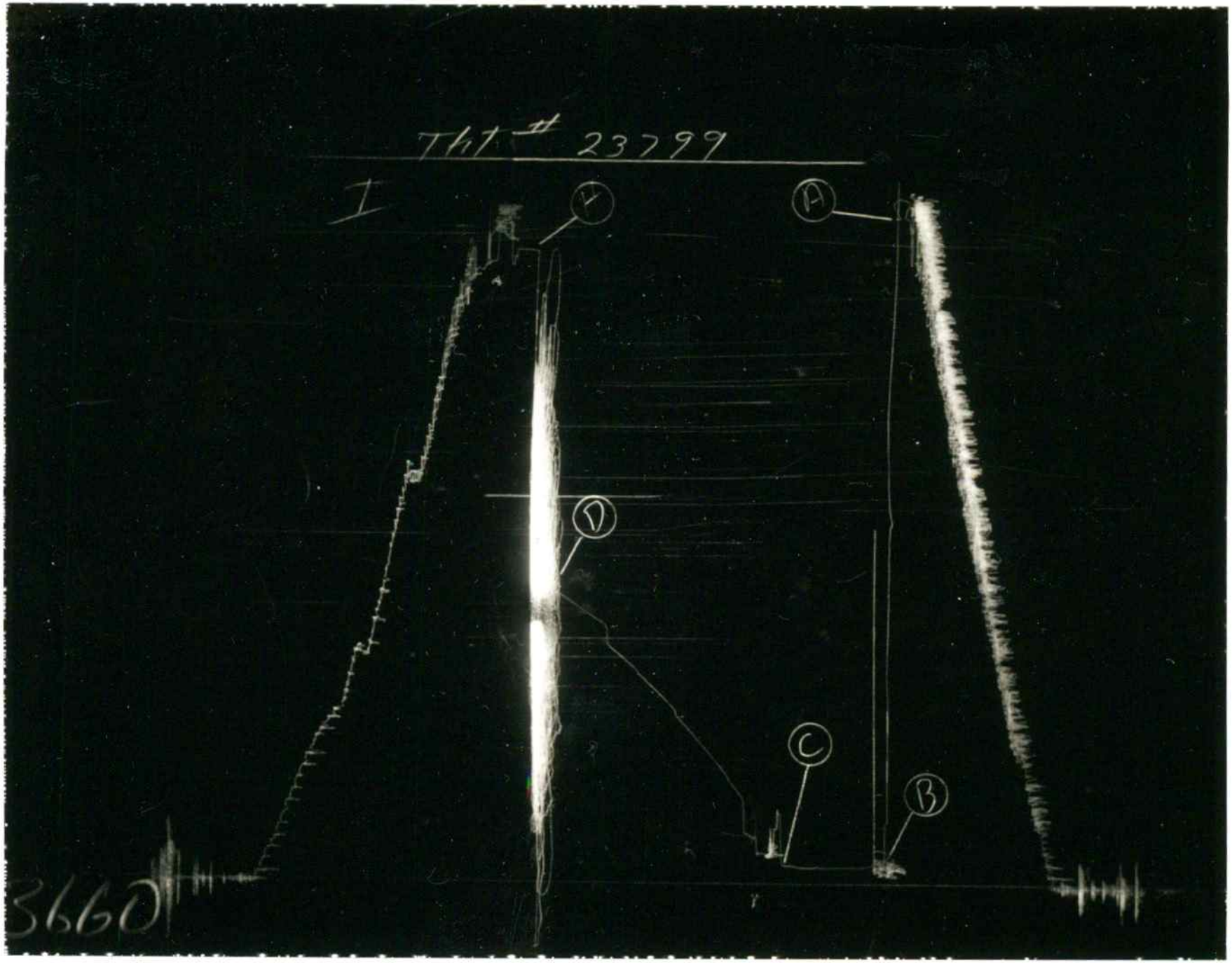
Recorder No. 3660 Capacity 4000 Location 4888 Ft.

Clock No. 26899 Elevation 1488 Ground Level Well Temperature 115 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2569 P.S.I.	Open Tool	10:25 P. M	
B	First Initial Flow Pressure	63 P.S.I.	First Flow Pressure	60 Mins.	60 Mins.
C	First Final Flow Pressure	71 P.S.I.	Initial Closed-in Pressure	120 Mins.	123 Mins.
D	Initial Closed-in Pressure	1108 P.S.I.	Second Flow Pressure	Mins.	Mins.
E	Second Initial Flow Pressure	Not taken P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F	Second Final Flow Pressure	" " P.S.I.			
G	Final Closed-in Pressure	" " P.S.I.			
H	Final Hydrostatic Mud	2456 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: Inc.		Breakdown: 41 Inc.		Breakdown: Inc.		Breakdown: Inc.	
of mins. and a		of 3 mins. and a		of mins. and a		of mins. and a	
final inc. of Min.		final inc. of 0 Min.		final inc. of Min.		final inc. of Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		60	679				
P 2		63	702				
P 3		66	720				
P 4		69	744				
P 5		72	762				
P 6		75	780				
P 7		78	800				
P 8		81	825				
P 9		84	843				
P10		87	863				
P11		90	879				
P12		93	897				
P13		96	915				
P14		99	1000				
P15		102	1010				
P16		105	1024				
P17		108	1036				
P18		111	1052				
P19		114	1066				
P20		117	1080				
		120	1094				
		123	1108				


Tht # 23799
I
A
D
C
B
3660

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Imperial Oil Company Lease & Well No. Davis #2-D

Elevation 1488 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 23800

Date 7-31-75 Sec. 7 Twp. 35S Range 14W County Barber State Kansas

Test Approved by Richard E. Roby Western Representative Bob Anthony

Formation Test No. 3 O.K. X Misrun - Interval Tested From 4900' to 4924' Total Depth 4924'

Size Main Hole 7 7/8 Rat Hole - Conv. X B.T. - Damaged - Yes X No Conv. 0 B.T. X Damaged - Yes X No

Top Packer Depth 4895 Ft. Size 6 3/4 Bottom Packer Depth 4900 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 24 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4920 Ft. Clock No. 6899 Depth 4923 Ft. Clock No. 6895

Top Make Kuster Cap. 4000 No. 3660 Inside Outside Bottom Make Kuster Cap. 4000 No. 3659 Inside Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 4:42 P. M

Tool Open I.F.P. From 4:45 P. M. to 5:45P M. 1 Hr. - Min. From (B) 30 P.S.I. To (C) 48 P.S.I.

Tool Closed I.C.I.P. From 5:45 P M. to 7:45P M. 2 Hr. - Min (D) 1603 P.S.I.

Tool Open F.F.P. From 7:45 P M. to 10:45P M. 3 Hr. - Min. From (E) 26 P.S.I. To (F) 51 P.S.I.

Tool Closed F.C.I.P. From 10:45 M. to 12:45A M. 2 Hr. - Min. (G) 1597 P.S.I.

Initial Hydrostatic Pressure (A) 2593 P.S.I. Final Hydrostatic Pressure (H) 2522 P.S.I. Maximum Temp. 110

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 62 minutes.

Did Well Flow - Yes X No Recovery Total Ft. 90' of gassy oil cut mud

Reversed Out - Yes X No Mud Type Starch Viscosity 49 Weight 9.0 Water Loss 11.2 cc. Chlorides 66,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 3½ In. Make WTC Ser. No. 405

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Red Tiger Drlg. Co. Length Drill Pipe? 4872 Ft. I.D. Drill Pipe 3.7 In. Tool Joint Size 4½FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 56 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 7-31-75 Test Ticket No. 23800

Recorder No. 3660 Capacity 4000 Location 4920 Ft.

Clock No. 6899 Elevation 1488 ground level Well Temperature 110 °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	2593	P.S.I.	Open Tool	4:42 PM			
B	First Initial Flow Pressure	30	P.S.I.	First Flow Pressure	60	Mins.	60	Mins.
C	First Final Flow Pressure	48	P.S.I.	Initial Closed-in Pressure	120	Mins.	120	Mins.
D	Initial Closed-in Pressure	1603	P.S.I.	Second Flow Pressure	180	Mins.	180	Mins.
E	Second Initial Flow Pressure	26	P.S.I.	Final Closed-in Pressure	120	Mins.	114	Mins.
F	Second Final Flow Pressure	51	P.S.I.					
G	Final Closed-in Pressure	1597	P.S.I.					
H	Final Hydrostatic Mud	2522	P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	30
P 2 5	32
P 3 10	32
P 4 15	33
P 5 20	34
P 6 25	36
P 7 30	38
P 8 35	40
P 9 40	43
P10 45	44
P11 50	45
P12 55	47
P13 60	48
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 40 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	48
3	425
6	669
9	819
12	976
15	1135
18	1249
21	1333
24	1396
27	1460
30	1494
33	1520
36	1540
39	1556
42	1567
45	1575
48	1581
51	1585
54	1587
57	1591
60	1593

Second Flow Pressure
Breakdown: 36 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	26
5	2727
10	27
15	27
20	27
25	27
30	27
35	29
40	31
45	34
50	36
55	37
60	38
65	38
70	38
75	38
80	39
85	39
90	41
95	42
100	43

Final Shut-In
Breakdown: 38 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	51
3	688
6	887
9	1048
12	1195
15	1309
18	1384
21	1440
24	1486
27	1518
30	1538
33	1554
36	1565
39	1573
42	1577
45	1581
48	1583
51	1585
54	1587
57	1588
60	1589

cont on next page

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.		Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.		Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.		Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1		63	1595	105	44	63	1590
P 2		66	1595	110	44	66	1590
P 3		69	1595	115	45	69	1591
P 4		72	1597	120	45	72	1591
P 5		75	1597	125	46	75	1592
P 6		78	1597	130	46	78	1592
P 7		81	1599	135	47	81	1593
P 8		84	1599	140	47	84	1593
P 9		87	1599	145	48	87	1594
P10		90	1600	150	48	90	1594
P11		93	1600	155	49	93	1595
P12		96	1600	160	49	96	1595
P13		99	1601	165	50	99	1596
P14		102	1601	170	50	102	1596
P15		105	1601	175	51	105	1597
P16		108	1602	180	51	108	1597
P17		111	1602			111	1597
P18		114	1602			114	1597
P19		117	1603				
P20		120	1603				

Phone 316 262-5861
316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 7-31-75 Ticket 23800 Company Imperial Oil Company

Well Name and No. Davis #2-D Dst No. 3 Interval Tested 4900' - 4924'

County Barber State Kansas Sec. 7 Twp. 35S Rg. 14W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
All measurements were taken through a ¼" orifice with a 2" merla orifice well tester. Gas to surface in 62 minutes after tool opened.						
SECOND FLOW						
8:15 P.M.	30 min	28" of water	¼" orifice			8,890 C.F.P.D.
8:30 P.M	15 min	24" of water	¼" orifice			8,220 C.F.P.D.
8:45 P.M	15 min	19" of water	¼" orifice			7,320 C.F.P.D.
9:00 P.M.	15 min	15" of water	¼" orifice			6,550 C.F.P.D.
9:15 P.M.	15 min	15" of water	¼" orifice			6,550 C.F.P.D.
9:30 P.M.	15 min	17" of water	¼" orifice			6,930 C.F.P.D.
9:45 P.M.	15 min	18" of water	¼" orifice			7,120 C.F.P.D.
10:00 PM	15 min	18" of water	¼" orifice			7,120 C.F.P.D.
10:15PM	15 min	17" of water	¼" orifice			6,930 C.F.P.D.
10:30PM	15 min	18" of water	¼" orifice			7,120 C.F.P.D.
10:45PM	15 min	17" of water	¼" orifice			6,930 C.F.P.D.
11:00 PM	15 min	17" of water	¼" orifice			6.930 C.F.P.D.

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced 7-31-75

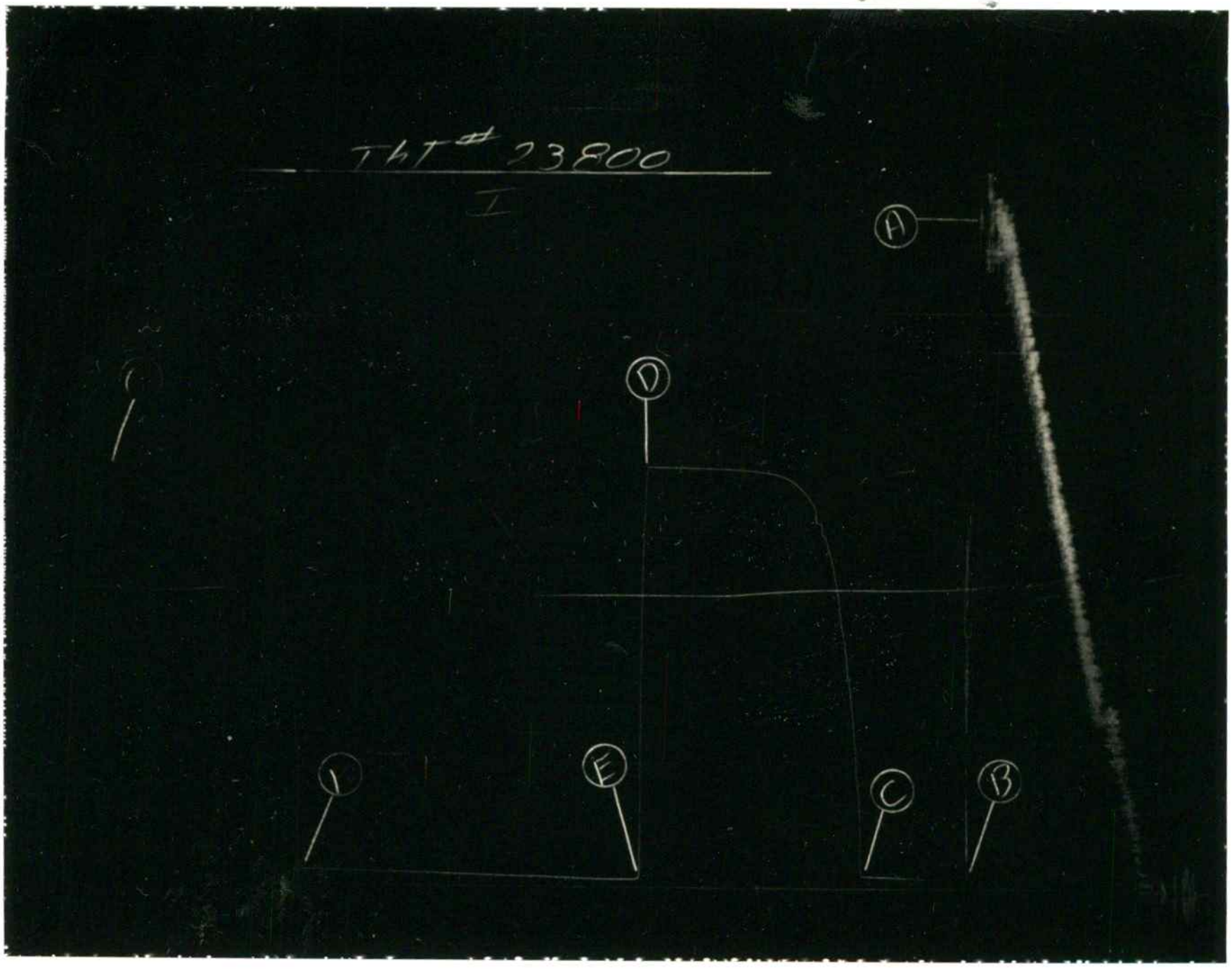
Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Imperial Oil Company

Authorized by Richard E. Roby

FORM WTC 6


THT # 23800
I
A
D
E
C
B