



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

Company Molz Oil Co. Lease & Well No. Yates A-#1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 25699

Date 7-4-77 Sec. 1 Twp. 35S Range 12W County Barber State Kansas

Test Approved by Doug McGinness Western Representative Bill Hager

Formation Test No. 1 O.K.  Misrun  Interval Tested From 4760' to 4780' Total Depth 4780'

Size Main Hole 77/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No

Top Packer Depth 4755 Ft. Size 6 3/4 Bottom Packer Depth 4760 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 20 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4769 Ft. Clock No. 4763 Depth 4772 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 <sup>Inside</sup> ~~Outside~~ Bottom Make Kuster Cap. 4150 No. 2606 <sup>Inside</sup> ~~Outside~~

Below Straddle: Depth  Rec. No.  Clock No.  <sup>Inside</sup> ~~Outside~~ Depth  Ft. Rec. No.  Clock No.  <sup>Inside</sup> ~~Outside~~

Time Set Packer 9:55 M

Tool Open I.F.P. From 9:57 M. to 10:27 M. - Hr. 30 Min. From (B) 96 P.S.I. To (C) 143 P.S.I.

Tool Closed I.C.I.P. From 10:27 M. to 10:57 M. - Hr. 30 Min (D) 1827 P.S.I.

Tool Open F.F.P. From 10:57 M. to 11:57 M. 1 Hr. - Min. From (E) 166 P.S.I. To (F) 318 P.S.I.

Tool Closed F.C.I.P. From 11:57 M. to 12:57 M. 1 Hr. - Min. (G) 1842 P.S.I.

Initial Hydrostatic Pressure (A) 2253 P.S.I. Final Hydrostatic Pressure (H) 2253 P.S.I. Maximum Temp. 127

**INFORMATION**

BLOW Strong blow throughout test. Gas to surface in 4 minutes. See attached sheet for gas measurements.

Did Well Flow  Yes  No Recovery Total Fr. 960' gassy oil.

Reversed Out  Yes  No Mud Type premix Viscosity 41 Weight 9.2 Water Loss 8 cc. Chlorides 7,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint  Jars: Size  In. Make  Ser. No.

Dual Packer  Did Packers Hold?  Did Tool Plug?  Where?

DRILLING CONTRACTOR Search Drlg. Co. Length Drill Pipe? 4739 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH 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 41 Ft.

Remarks:

**WESTERN TESTING CO., INC.**

**Pressure Data**

Date 7-4-77

Test Ticket No. 25699

Recorder No. 2604 Capacity 4150 Location 4769 Ft.

Clock No. 4763 Elevation - Well Temperature 127 °F

Point	Pressure			Time Given	Time Computed
A. Initial Hydrostatic Mud	2253	P.S.I.	Open Tool	9:55 M	
B. First Initial Flow Pressure	96	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C. First Final Flow Pressure	143	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D. Initial Closed-in Pressure	1827	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E. Second Initial Flow Pressure	166	P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F. Second Final Flow Pressure	318	P.S.I.			
G. Final Closed-in Pressure	1842	P.S.I.			
H. Final Hydrostatic Mud	2253	P.S.I.			

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In		
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.		
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a		
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	96	0	143	0	166	0	318
P 2	5	102	3	971	5	164	3	1150
P 3	10	98	6	1353	10	173	6	1395
P 4	15	109	9	1523	15	180	9	1523
P 5	20	121	12	1636	20	200	12	1594
P 6	25	132	15	1697	25	220	15	1651
P 7	30	143	18	1741	30	237	18	1683
P 8			21	1769	35	254	21	1710
P 9			24	1794	40	267	24	1731
P10			27	1811	45	279	27	1748
P11			30	1827	50	292	30	1765
P12					55	305	33	1775
P13					60	318	36	1788
P14							39	1798
P15							42	1804
P16							45	1813
P17							48	1819
P18							51	1825
P19							54	1832
P20							57	1838
							60	1842



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### GAS FLOW REPORT

Date 7-4-77 Ticket 25699 Company Molz Oil Co.  
Well Name and No. Yates A-#1 Dst No. 1 Interval Tested 4760' - 4780'  
County Barber State Kansas Sec. 1 Twp. 35S Rg. 12W

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
<b>PRE FLOW</b>						
10:10AM	10 min.	20 inches	of water		1" choke	115,000 C.F.P.D.
10:20AM	20 min.	16 inches	of water		1" choke	103,000 C.F.P.D.
10:30AM	30 min.	16 inches	of water		1" choke	103,000 C.F.P.D.

<b>SECOND FLOW</b>						
11:10 AM	10 min.	32 inches	of water		1" choke	146,000 C.F.P.D.
11:20 AM	20 min.	16 inches	of water		1" choke	103,000 C.F.P.D.
11:30 AM	30 min.	14 inches	of water		1" choke	97,300 C.F.P.D.
11:40 AM	40 min.	12 inches	of water		1" choke	89,800 C.F.P.D.
11:50 AM	50 min.	10 inches	of water		1" choke	86,500 C.F.P.D.
12:00 PM	60 min.	10 inches	of water		1" choke	86,500 C.F.P.D.

### GAS BOTTLE

Serial No. \_\_\_\_\_ Date Bottle Filled 7-4-77 Date to be Invoiced 7-4-77

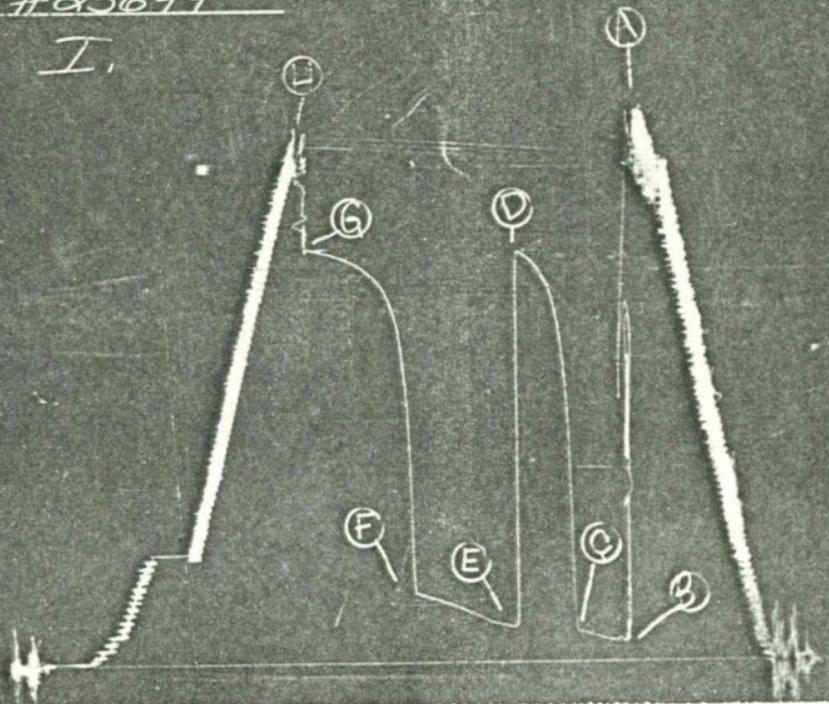
Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By 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 Molz Oil Co.  
Authorized by Doug McGinness

TK#-25699

I.





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Company Molz Oil Co. Lease & Well No. Yates A-#1  
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 25700  
 Date 7-5-77 Sec. 1 Twp. 35S Range 12W County Barber State Kansas  
 Test Approved by D.H. McGinness Western Representative Bill Hager

Formation Test No. 2 O.K.  Misrun  Interval Tested From 4782' to 4805' Total Depth 4805'  
 Size Main Hole 77/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
 Top Packer Depth 4777 Ft. Size 6 3/4 Bottom Packer Depth 4782 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 23 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4795 Ft. Clock No. 4763 Depth 4798 Ft. Clock No. 9726  
 Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4150 No. 2606 Inside Outside  
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 2:17 A M  
 Tool Open I.F.P. From 2:20 A.M. to 2:50 A.M. - Hr. 30 Min. From (B) 21 P.S.I. To (C) 11 P.S.I.  
 Tool Closed I.C.I.P. From 2:50 M. to 3:20 A.M. - Hr. 30 Min (D) 1058 P.S.I.  
 Tool Open F.F.P. From 3:20 A.M. to 4:50 A.M. 1 Hr. 30 Min. From (E) 28 P.S.I. To (F) 21 P.S.I.  
 Tool Closed F.C.I.P. From 4:50 M. to 5:50 A.M. 1 Hr. - Min. (G) 1349 P.S.I.  
 Initial Hydrostatic Pressure (A) 2350 P.S.I. Final Hydrostatic Pressure (H) 2350 P.S.I. Maximum Temp. 127

**INFORMATION**

BLOW Strong blow throughout test. Gas to surface on second opening.  
 Did Well Flow  Yes  No Recovery Total Ft. 60' total recovery. 10' heavy oil & gas cut mud, 50' gassy oil.

Reversed Out  Yes  No Mud Type premix Viscosity 41 Weight 9.2 Water Loss 8.0 cc. Chlorides 7,000 P.P.M.  
 EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint  Jars: Size - In. Make - Ser. No. -  
 Dual Packer  Yes Did Packers Hold?  yes Did Tool Plug?  no Where? -  
 DRILLING CONTRACTOR Search Drlg. Co. Length Drill Pipe 4761 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH 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 44 Ft.

Remarks:

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 7-5-77 Test Ticket No. 25700  
 Recorder No. 2604 Capacity 4150 Location 4795 Ft.  
 Clock No. 4703 Elevation - Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2350 P.S.I.	Open Tool	2:17 A M	
B First Initial Flow Pressure	21 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	11 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	1058 P.S.I.	Second Flow Pressure	90 Mins.	90 Mins.
E Second Initial Flow Pressure	28 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	21 P.S.I.			
G Final Closed-in Pressure	1349 P.S.I.			
H Final Hydrostatic Mud	2350 P.S.I.			

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	21	0	11	0	28	0	21
P 2 5	11	3	91	5	17	3	66
P 3 10	11	6	211	10	17	6	140
P 4 15	11	9	314	15	17	9	211
P 5 20	11	12	414	20	17	12	284
P 6 25	11	15	504	25	17	15	365
P 7 30	11	18	598	30	17	18	442
P 8		21	686	35	17	21	515
P 9		24	774	40	17	24	586
P10		27	866	45	18	27	659
P11		30	954	50	18	30	728
P12		33	1058	55	19	33	797
P13				60	19	36	864
P14				65	20	39	929
P15				70	20	42	992
P16				75	20	45	1050
P17				80	20	48	1106
P18				85	21	51	1161
P19				90	21	54	1215
P20						57	1259
						60	1303
						63	1349





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Company Molz Oil Co. Lease & Well No. Yates A-#1

Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 23026

Date 7-5-77 Sec. 1 Twp. 35S Range 12W County Barber State Kansas

Test Approved by Doug McGinness Western Representative Bill Hager

Formation Test No. 3 O.K.  Misrun  Interval Tested From 4807' to 4840' Total Depth 4840'

Size Main Hole 77/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No

Top Packer Depth 4802 Ft. Size 6 3/4 Bottom Packer Depth 4807 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 33 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4830 Ft. Clock No. 4763 Depth 4833 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604 Inside  Outside  Bottom Make Kuster Cap. 4150 No. 2606 Inside  Outside

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

Time Set Packer 4:27 M

Tool Open I.F.P. From 4:30 M. to 5:00 M. - Hr. 30 Min. From (B) 30 P.S.I. To (C) 19 P.S.I.

Tool Closed I.C.I.P. From 5:00 M. to 5:30 M. - Hr. 30 Min (D) 251 P.S.I.

Tool Open F.F.P. From 5:30 M. to 6:30 M. 1 Hr. - Min. From (E) 34 P.S.I. To (F) 26 P.S.I.

Tool Closed F.C.I.P. From 6:30 M. to 7:30 M. 1 Hr. - Min. (G) 937 P.S.I.

Initial Hydrostatic Pressure (A) 2306 P.S.I. Final Hydrostatic Pressure (H) 2306 P.S.I. Maximum Temp. 127

INFORMATION

BLOW Strong blow throughout test.

Did Well Flow  Yes  No Recovery Total Fr. 30' slightly oil & gas cut mud.

Reversed Out  Yes  No Mud Type premix Viscosity 38 Weight 9.0 Water Loss 11.2 cc. Chlorides 10,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer yes Did Packers Hold? yes Did Tool Plug? - Where? -

DRILLING CONTRACTOR Search Drlg. Co. Length Drill Pipe? 4786 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH 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 7-5-77 Test Ticket No. 23026  
 Recorder No. 2604 Capacity 4150 Location 4830 Ft.  
 Clock No. 4763 Elevation - Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2306</u> P.S.I.	Open Tool	<u>4:27</u> M	
B First Initial Flow Pressure	<u>30</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>19</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>251</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>34</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>75</u> Mins.
F Second Final Flow Pressure	<u>26</u> P.S.I.			
G Final Closed-in Pressure	<u>937</u> P.S.I.			
H Final Hydrostatic Mud	<u>2306</u> P.S.I.			

**PRESSURE BREAKDOWN**

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

**Initial Shut-In**  
 Breakdown: 11 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

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

**Final Shut-In**  
 Breakdown: 25 Inc.  
 of 3 mins. and a  
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u> 30	<u>0</u> 19	<u>0</u> 34	<u>0</u> 26			
P 2	<u>5</u> 19	<u>3</u> 21	<u>5</u> 23	<u>3</u> 30			
P 3	<u>10</u> 19	<u>6</u> 32	<u>10</u> 23	<u>6</u> 49			
P 4	<u>15</u> 19	<u>9</u> 51	<u>15</u> 23	<u>9</u> 70			
P 5	<u>20</u> 19	<u>12</u> 70	<u>20</u> 23	<u>12</u> 94			
P 6	<u>25</u> 19	<u>15</u> 94	<u>25</u> 23	<u>15</u> 119			
P 7	<u>30</u> 19	<u>18</u> 115	<u>30</u> 26	<u>18</u> 145			
P 8		<u>21</u> 136	<u>35</u> 26	<u>21</u> 173			
P 9		<u>24</u> 162	<u>40</u> 26	<u>24</u> 203			
P10		<u>27</u> 192	<u>45</u> 26	<u>27</u> 233			
P11		<u>30</u> 224	<u>50</u> 26	<u>30</u> 267			
P12		<u>33</u> 251	<u>55</u> 26	<u>33</u> 303			
P13			<u>60</u> 26	<u>36</u> 344			
P14				<u>39</u> 387			
P15				<u>42</u> 427			
P16				<u>45</u> 468			
P17				<u>48</u> 515			
P18				<u>51</u> 561			
P19				<u>54</u> 607			
P20				<u>57</u> 648			
				<u>60</u> 704			

**WESTERN TESTING CO., INC.**

**Pressure Data**

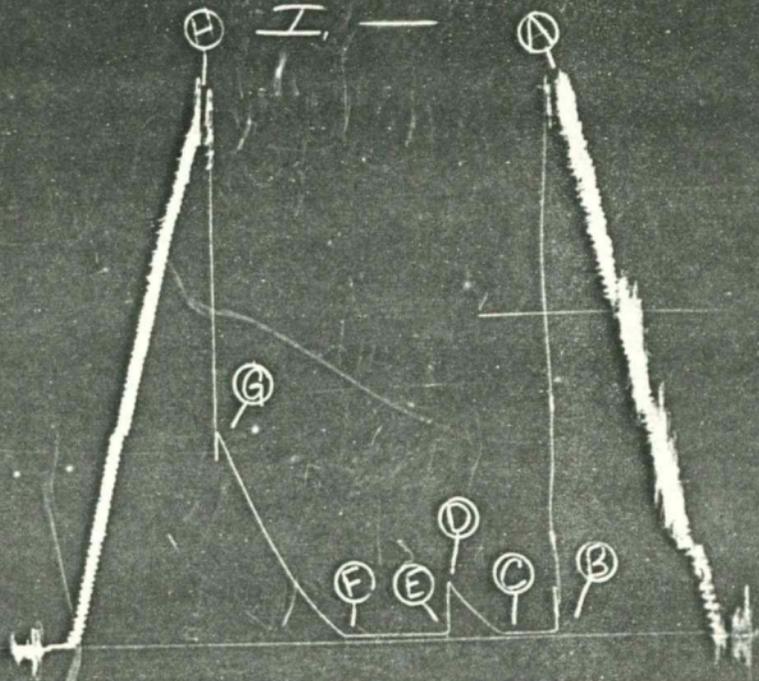
Date 7-5-77 Test Ticket No. 23026  
 Recorder No. 2604 Capacity 4150 Location 4830 Ft.  
 Clock No. 4763 Elevation - Well Temperature 127 °F

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**

Point Mins.	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: <u>25</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Point Minutes	Point Minutes
P 1	_____	_____	_____	63
P 2	_____	_____	_____	66
P 3	_____	_____	_____	69
P 4	_____	_____	_____	72
P 5	_____	_____	_____	75
P 6	_____	_____	_____	
P 7	_____	_____	_____	
P 8	_____	_____	_____	
P 9	_____	_____	_____	
P10	_____	_____	_____	
P11	_____	_____	_____	
P12	_____	_____	_____	
P13	_____	_____	_____	
P14	_____	_____	_____	
P15	_____	_____	_____	
P16	_____	_____	_____	
P17	_____	_____	_____	
P18	_____	_____	_____	
P19	_____	_____	_____	
P20	_____	_____	_____	

TK#23026





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

Company Molz Oil Co. Lease & Well No. Yates A #1

Elevation - Formation Viola Effective Pay - Ft. Ticket No. 23027

Date 7-7-77 Sec. 1 Twp. 35S Range 12W County Barber State Kansas

Test Approved by Doug McGinness Western Representative Bill Hager

Formation Test No. 4 O.K.  Misrun  Interval Tested From 5170' to 5230' Total Depth 5230'

Size Main Hole 7 7/8 at Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No

Top Packer Depth 5165 Ft. Size 6 3/4 Bottom Packer Depth 5170 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 60 Ft. Size 30 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 5220 Ft. Clock No. 4763 Depth 5223 Ft. Clock No. 9726

Top Make Kuster Cap. 4150 No. 2604  Inside  Outside Bottom Make Kuster Cap. 4150 No. 2606  Inside  Outside

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

Time Set Packer 9:47 M

Tool Open I.F.P. From 9:50 M. to 10:20 M. - Hr. 30 Min. From (B) 58 P.S.I. To (C) 59 P.S.I.

Tool Closed I.C.I.P. From 10:20 M. to 10:50 M. - Hr. 30 Min (D) 89 P.S.I.

Tool Open F.F.P. From 10:50 M. to 11:15 M. - Hr. 25 Min. From (E) 64 P.S.I. To (F) 77 P.S.I.

Tool Closed F.C.I.P. From 11:15 M. to 11:45 M. - Hr. 30 Min. (G) 114 P.S.I.

Initial Hydrostatic Pressure (A) 2640 P.S.I. Final Hydrostatic Pressure (H) 2640 P.S.I. Maximum Temp. 132

**INFORMATION**

BLOW Weak blow, died in 10 minutes into final flow period, flushed tool, weak blow for 5 minutes.

Did Well Flow  Yes  No Recovery Total Ft. 15' of drilling mud.

Reversed Out  Yes  No Mud Type Premix Viscosity 37 Weight 9.4 Water Loss 13.2 cc. Chlorides 80,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size 4 1/2 OD In. Make WTC Ser. No. 408

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

DRILLING CONTRACTOR Seach Drlg. Co. Length Drill Pipe? 4895 Ft. I.D. Drill Pipe 3 In. Tool Joint Size 4 1/2 XH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 248 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 87 Ft.

Remarks:

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 7-7-77

Test Ticket No. 23027

Recorder No. 2604 Capacity 4150

Location 5220 Ft.

Clock No. 4763 Elevation -

Well Temperature 132 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2640</u> P.S.I.	Open Tool	<u>9:47</u> M	
B First Initial Flow Pressure	<u>58</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>59</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>89</u> P.S.I.	Second Flow Pressure	<u>25</u> Mins.	<u>25</u> Mins.
E Second Initial Flow Pressure	<u>64</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>77</u> P.S.I.			
G Final Closed-in Pressure	<u>114</u> P.S.I.			
H Final Hydrostatic Mud	<u>2640</u> P.S.I.			

**PRESSURE BREAKDOWN**

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

**Initial Shut-In**  
Breakdown: 11 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

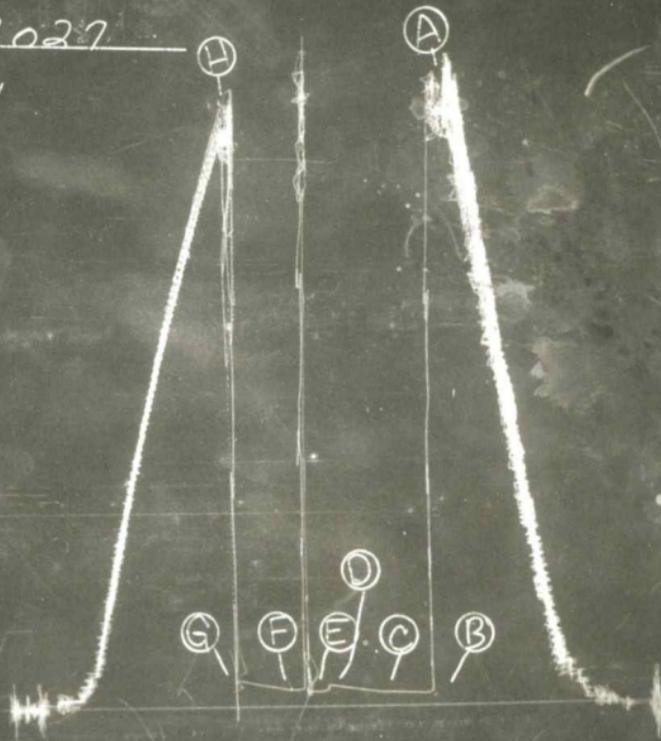
**Second Flow Pressure**  
Breakdown: 5 Inc.  
of 5 mins. and a  
final inc. of 0 Min.

**Final Shut-In**  
Breakdown: 6 Inc.  
of 3 mins. and a  
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>58</u>	<u>0</u>	<u>59</u>	<u>0</u>	<u>64</u>	<u>0</u>	<u>77</u>
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>60</u>	<u>5</u>	<u>64</u>	<u>3</u>	<u>79</u>
P 3 <u>10</u>	<u>53</u>	<u>6</u>	<u>63</u>	<u>10</u>	<u>64</u>	<u>6</u>	<u>83</u>
P 4 <u>15</u>	<u>54</u>	<u>9</u>	<u>66</u>	<u>15</u>	<u>72</u>	<u>9</u>	<u>87</u>
P 5 <u>20</u>	<u>55</u>	<u>12</u>	<u>68</u>	<u>20</u>	<u>72</u>	<u>12</u>	<u>92</u>
P 6 <u>25</u>	<u>58</u>	<u>15</u>	<u>72</u>	<u>25</u>	<u>77</u>	<u>15</u>	<u>94</u>
P 7 <u>30</u>	<u>59</u>	<u>18</u>	<u>75</u>			<u>18</u>	<u>98</u>
P 8		<u>21</u>	<u>79</u>			<u>21</u>	<u>104</u>
P 9		<u>24</u>	<u>81</u>			<u>24</u>	<u>109</u>
P10		<u>27</u>	<u>84</u>			<u>27</u>	<u>113</u>
P11		<u>30</u>	<u>87</u>			<u>30</u>	<u>114</u>
P12		<u>33</u>	<u>89</u>				
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Flushed Tool

TK1#-23027  
I.





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

Company Molz Oil Co. Lease & Well No. Yates A #1  
Elevation - Formation Simpson Effective Pay - Ft. Ticket No. 23028  
Date 7-8-77 Sec. 1 Twp. 35S Range 12W County Barber State Kansas  
Test Approved by Doug McGinness Western Representative Bill Hager  
Formation Test No. 5 O.K.  Misrun  Interval Tested From 5245' to 5280' Total Depth 5280'  
Size Main Hole 7 7/8 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
Top Packer Depth 5240 Ft. Size 6 3/4 Bottom Packer Depth 5245 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 35 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.  
RECORDERS Depth 5270 Ft. Clock No. 4763 Depth 5273 Ft. Clock No. 9726  
Top Make Kuster Cap. 4150 No. 2604 ~~Inside~~ Outside Bottom Make Kuster Cap. 4150 No. 2606 ~~Inside~~ Outside  
Below Straddle: Depth - Rec. No. - Clock No. - ~~Inside~~ Outside Depth - Ft. Rec. No. - Clock No. - ~~Inside~~ Outside  
Time Set Packer 8:17 M  
Tool Open I.F.P. From 8:20 M. to 8:50 M. - Hr. 30 Min. From (B) 70 P.S.I. To (C) 141 P.S.I.  
Tool Closed I.C.I.P. From 8:50 M. to 9:20 M. - Hr. 30 Min (D) 2149 P.S.I.  
Tool Open F.F.P. From 9:20 M. to 9:50 M. - Hr. 30 Min. From (E) 149 P.S.I. To (F) 165 P.S.I.  
Tool Closed F.C.I.P. From 9:50 M. to 10:20 M. - Hr. 30 Min. (G) 2144 P.S.I.  
Initial Hydrostatic Pressure (A) 2612 P.S.I. Final Hydrostatic Pressure (H) 2612 P.S.I. Maximum Temp. 142

### INFORMATION

BLOW Fair blow throughout initial flow period. Strong blow throughout final flow period.  
Did Well Flow  Yes  No Recovery Total Ft. 290' of total recovery. 170' of slightly oil and gas cut mud, 120' of slightly oil and gas cut muddy water.  
Reversed Out  Yes  No Mud Type Premix Viscosity 43 Weight 9.1 Water Loss 17.6 cc. Chlorides 10,000 PPM  
EXTRA EQUIPMENT: Type Circ. Sub. - Pins Safety Joint  Jars: Size 4 1/2 OD In. Make WTC Ser. No. 408  
Dual Packer  Yes Did Packers Hold?  Yes Did Tool Plug?  No Where? -  
DRILLING CONTRACTOR Search Drlg. Co. Length Drill Pipe 4981 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.  
Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 248 Ft. I.D. Drill Collars 2 1/4 In.  
Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 51 Ft.  
Remarks: Slid tool 12' to bottom. Chlorides checked: 78,000 PPM

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 7-8-77 Test Ticket No. 23028  
 Recorder No. 2604 Capacity 4150 Location 5270 Ft.  
 Clock No. 4763 Elevation - Well Temperature 142 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2612</u> P.S.I.	Open Tool	<u>8:17</u> M	
B First Initial Flow Pressure	<u>70</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>141</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>2149</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>149</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>165</u> P.S.I.			
G Final Closed-in Pressure	<u>2144</u> P.S.I.			
H Final Hydrostatic Mud	<u>2612</u> P.S.I.			

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. = of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>70</u>	<u>0</u>	<u>14</u>	<u>0</u>	<u>149</u>	<u>0</u>	<u>165</u>
P 2 <u>5</u>	<u>77</u>	<u>3</u>	<u>485</u>	<u>5</u>	<u>147</u>	<u>3</u>	<u>459</u>
P 3 <u>10</u>	<u>113</u>	<u>6</u>	<u>2078</u>	<u>10</u>	<u>150</u>	<u>6</u>	<u>2061</u>
P 4 <u>15</u>	<u>190</u>	<u>9</u>	<u>2114</u>	<u>15</u>	<u>155</u>	<u>9</u>	<u>2101</u>
P 5 <u>20</u>	<u>354</u>	<u>12</u>	<u>2127</u>	<u>20</u>	<u>160</u>	<u>12</u>	<u>2120</u>
P 6 <u>25</u>	<u>132</u>	<u>15</u>	<u>2135</u>	<u>25</u>	<u>164</u>	<u>15</u>	<u>2129</u>
P 7 <u>30</u>	<u>141</u>	<u>18</u>	<u>2139</u>	<u>30</u>	<u>165</u>	<u>18</u>	<u>2135</u>
P 8 _____	_____	<u>21</u>	<u>2143</u>	_____	_____	<u>21</u>	<u>2139</u>
P 9 _____	_____	<u>24</u>	<u>2146</u>	_____	_____	<u>24</u>	<u>2141</u>
P10 _____	_____	<u>27</u>	<u>2148</u>	_____	_____	<u>27</u>	<u>2143</u>
P11 _____	_____	<u>30</u>	<u>2149</u>	_____	_____	<u>30</u>	<u>2144</u>
P12 _____	_____	_____	_____	_____	_____	_____	_____
P13 _____	_____	_____	_____	_____	_____	_____	_____
P14 _____	_____	_____	_____	_____	_____	_____	_____
P15 _____	_____	_____	_____	_____	_____	_____	_____
P16 _____	_____	_____	_____	_____	_____	_____	_____
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

TKH 23028

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