

Company Molz Oil Company Lease & Well No. #2 Antrim
Elevation = Formation Swope Effective Pay -- Ft. Ticker No. 16387
Date 8/ 25 /82 Sec. 30 Twp. 32S Range 10W County Barber State Kansas
Test Approved by Gordon W. Keen Western Representative Jim Wondra
Formation Test No. 1 Interval Tested from 4164 ft. to 4181 ft. Total Depth 4181 ft.
Packer Depth 4159 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4164 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4170 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4173 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Sweetman Drlg. Rig #1 Drill Collar Length 280 I. D. 2 1/4 in.
Mud Type -- Viscosity 47 Weight Pipe Length - I. D. - in.
Weight 9.2 Water Loss 6 cc. Drill Pipe Length 3855 I. D. 3.8 in.
Chlorides ---- P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 17 ft. Size 5 1/2 OD in.
Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout both flow periods. Gas to surface in seven minutes on pre-flow.
See attached sheet for gas measurements.

Recovered 1860 ft. of salt water Chlorides 112,000 ppm
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

Time Set Packer(s) 4:35 ~~A.M.~~ P.M. Time Started Off Bottom 7:50 ~~A.M.~~ P.M. Maximum Temperature 119°
Initial Hydrostatic Pressure 2209 P.S.I.
Initial Flow Period 20 Minutes (B) 353 P.S.I. to (C) 422 P.S.I.
Initial Closed In Period 60 Minutes (D) 1669 P.S.I.
Final Flow Period 60 Minutes (E) 633 P.S.I. to (F) 868 P.S.I.
Final Closed In Period 60 Minutes (G) 1620 P.S.I.
Final Hydrostatic Pressure 2055 P.S.I. (H)

GAS FLOW REPORT

Date 8/25/82 Ticket 16387 Company Molz Oil Company
 Well Name and No. Antrim #2 Dst No. 1 Interval Tested 4164'-4181'
 County Barber State Kansas Sec. 30 Twp. 32S Rg. 10W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
Gas to surface in seven minutes.					
10 min.	7" of water	1" orifice			68,000 CFPD
20 min.	15" of water	1" orifice			101,000 CFPD

SECOND FLOW					
10 min.	11" of water	1/4" orifice			5,600 CFPD
20 min.	9" of water	1" orifice			77,500 CFPD
30 min.	13" of water	1" orifice			93,600 CFPD
40 min.	15" of water	1" orifice			101,000 CFPD
50 min.	16" of water	1" orifice			103,000 CFPD
60 min.	16" of water	1" orifice			103,000 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled --- Date to be Invoiced 8/25/82

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 11½% per month, equal to 18% 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 Company
 Authorized by Gordon W. Keen

WESTERN TESTING CO., INC.

Pressure Data

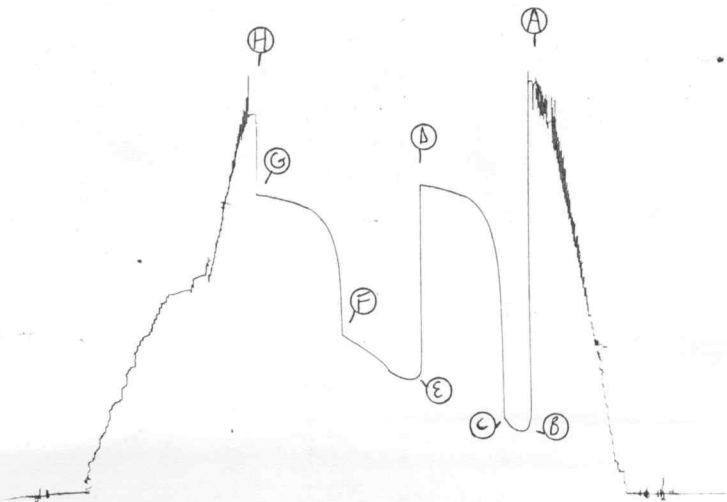
Date 8/25/82 Test Ticket No. 16387
 Recorder No. 2607 Capacity 4150 Location 4170 Ft.
 Clock No. -- Elevation --- Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2209 P.S.I.	Open Tool	4:35P	M
B First Initial Flow Pressure	353 P.S.I.	First Flow Pressure	20	Mins. 20 Mins.
C First Final Flow Pressure	422 P.S.I.	Initial Closed-in Pressure	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1669 P.S.I.	Second Flow Pressure	60	Mins. 60 Mins.
E Second Initial Flow Pressure	633 P.S.I.	Final Closed-in Pressure	60	Mins. 60 Mins.
F Second Final Flow Pressure	868 P.S.I.			
G Final Closed-in Pressure	1620 P.S.I.			
H Final Hydrostatic Mud	2055 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>20</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 <u>0</u>	353	<u>0</u>	422	<u>0</u>	633	<u>0</u>	868
P 2 <u>5</u>	353	<u>3</u>	1188	<u>5</u>	633	<u>3</u>	1338
P 3 <u>10</u>	359	<u>6</u>	1340	<u>10</u>	634	<u>6</u>	1406
P 4 <u>15</u>	382	<u>9</u>	1427	<u>15</u>	643	<u>9</u>	1450
P 5 <u>20</u>	422	<u>12</u>	1479	<u>20</u>	661	<u>12</u>	1480
P 6		<u>15</u>	1520	<u>25</u>	693	<u>15</u>	1506
P 7		<u>18</u>	1550	<u>30</u>	733	<u>18</u>	1527
P 8		<u>21</u>	1574	<u>35</u>	760	<u>21</u>	1543
P 9		<u>24</u>	1592	<u>40</u>	787	<u>24</u>	1554
P10		<u>27</u>	1606	<u>45</u>	810	<u>27</u>	1562
P11		<u>30</u>	1612	<u>50</u>	832	<u>30</u>	1573
P12		<u>33</u>	1618	<u>55</u>	856	<u>33</u>	1580
P13		<u>36</u>	1624	<u>60</u>	868	<u>36</u>	1585
P14		<u>39</u>	1630			<u>39</u>	1590
P15		<u>42</u>	1636			<u>42</u>	1595
P16		<u>45</u>	1642			<u>45</u>	1600
P17		<u>48</u>	1648			<u>48</u>	1604
P18		<u>51</u>	1654			<u>51</u>	1608
P19		<u>54</u>	1660			<u>54</u>	1612
P20		<u>57</u>	1663			<u>57</u>	1616
		<u>60</u>	1669			<u>60</u>	1620

TKT # 16387



27

Company Molz Oil Company Lease & Well No. #2 Antrim
Elevation = Formation Marmaton Effective Pay -- Ft. Ticket No. 16388
Date 8/ 26/82 Sec. 30 Twp. 32S Range 10W County Barber State Kansas
Test Approved by Gordon W. Keen Western Representative Jim Wondra
Formation Test No. 2 Interval Tested from 4336 ft. to 4365 ft. Total Depth 4365 ft.
Packer Depth 4331 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 4336 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4354 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4357 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Sweetman Drlg. Rig #1 Drill Collar Length 280 I. D. 2 1/4 in.
Mud Type -- Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 13.8 cc. Drill Pipe Length 4027 I. D. 3.8 in.
Chlorides --- P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 29 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout both flow periods.

Recovered 5 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:10 ~~A.M.~~ P.M. Time Started Off Bottom 10:30 ~~A.M.~~ P.M. Maximum Temperature 121°
Initial Hydrostatic Pressure (A) 2340 P.S.I.
Initial Flow Period Minutes 20 (B) 78 P.S.I. to (C) 78 P.S.I.
Initial Closed In Period Minutes 60 (D) 837 P.S.I.
Final Flow Period Minutes 60 (E) 49 P.S.I. to (F) 49 P.S.I.
Final Closed In Period Minutes 57 (G) 359 P.S.I.
Final Hydrostatic Pressure (H) 2253 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 8/26/82 Test Ticket No. 16388
 Recorder No. 2607 Capacity 4150 Location 4354 Ft.
 Clock No. -- Elevation --- Well Temperature 121 °F

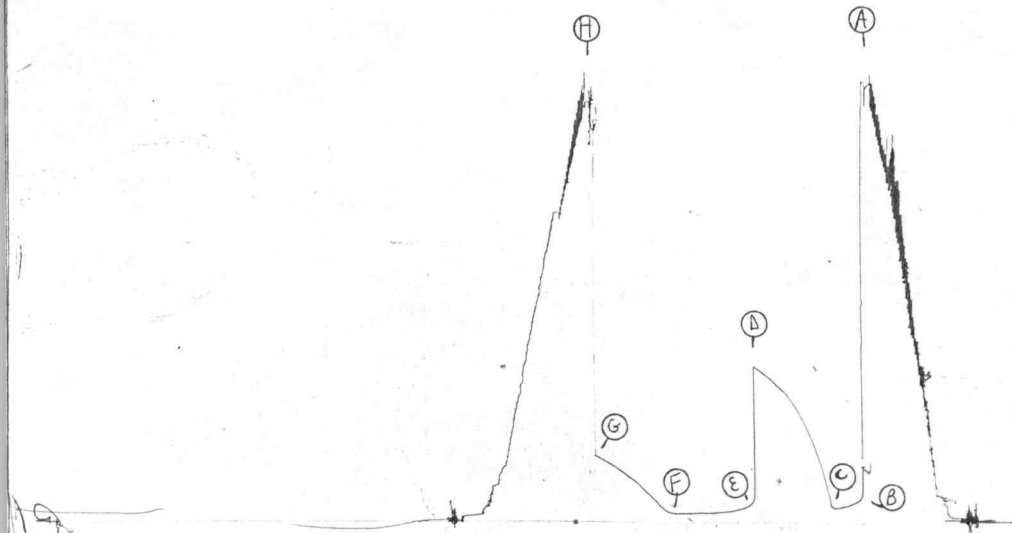
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2340 P.S.I.	7:10P	M
B First Initial Flow Pressure	78 P.S.I.	20 Mins.	20 Mins.
C First Final Flow Pressure	78 P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	837 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	49 P.S.I.	60 Mins.	57 Mins.
F Second Final Flow Pressure	49 P.S.I.		
G Final Closed-in Pressure	359 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>4</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>19</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 <u>0</u>	<u>78</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>49</u>
P 2 <u>5</u>	<u>78</u>	<u>3</u>	<u>93</u>	<u>5</u>	<u>49</u>	<u>3</u>	<u>57</u>
P 3 <u>10</u>	<u>78</u>	<u>6</u>	<u>184</u>	<u>10</u>	<u>49</u>	<u>6</u>	<u>70</u>
P 4 <u>15</u>	<u>78</u>	<u>9</u>	<u>265</u>	<u>15</u>	<u>49</u>	<u>9</u>	<u>91</u>
P 5 <u>20</u>	<u>78</u>	<u>12</u>	<u>333</u>	<u>20</u>	<u>49</u>	<u>12</u>	<u>112</u>
P 6		<u>15</u>	<u>393</u>	<u>25</u>	<u>49</u>	<u>15</u>	<u>133</u>
P 7		<u>18</u>	<u>449</u>	<u>30</u>	<u>49</u>	<u>18</u>	<u>154</u>
P 8		<u>21</u>	<u>496</u>	<u>35</u>	<u>49</u>	<u>21</u>	<u>175</u>
P 9		<u>24</u>	<u>544</u>	<u>40</u>	<u>49</u>	<u>24</u>	<u>196</u>
P10		<u>27</u>	<u>583</u>	<u>45</u>	<u>49</u>	<u>27</u>	<u>218</u>
P11		<u>30</u>	<u>616</u>	<u>50</u>	<u>49</u>	<u>30</u>	<u>235</u>
P12		<u>33</u>	<u>650</u>	<u>55</u>	<u>49</u>	<u>33</u>	<u>249</u>
P13		<u>36</u>	<u>678</u>	<u>60</u>	<u>49</u>	<u>36</u>	<u>266</u>
P14		<u>39</u>	<u>704</u>			<u>39</u>	<u>281</u>
P15		<u>42</u>	<u>723</u>			<u>42</u>	<u>294</u>
P16		<u>45</u>	<u>741</u>			<u>45</u>	<u>309</u>
P17		<u>48</u>	<u>764</u>			<u>48</u>	<u>323</u>
P18		<u>51</u>	<u>781</u>			<u>51</u>	<u>335</u>
P19		<u>54</u>	<u>797</u>			<u>54</u>	<u>347</u>
P20		<u>57</u>	<u>814</u>			<u>57</u>	<u>359</u>
		<u>60</u>	<u>837</u>				

TKT # 16388

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Company Molz Oil Company Lease & Well No. #2 Antrim
Elevation = Formation Cherokee-Mississippi Effective Pay = Ft. Ticket No. 16389
Date 8/ 27 /82 Sec. 30 Twp. 32S Range 10W County Barber State Kansas
Test Approved by Gordon W. Keen Western Representative Jim Wondra
Formation Test No. 3 Interval Tested from 4408 ft. to 4460 ft. Total Depth 4460 ft.
Packer Depth 4403 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 4408 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4419 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4422 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Sweetman Drlg. Rig #1 Drill Collar Length 280 I. D. 2 1/4 in.
Mud Type -- Viscosity 46 Weight Pipe Length - I. D. - in.
Weight 9.3 Water Loss 12.2 cc. Drill Pipe Length 4129 I. D. 3.8 in.
Chlorides ---- P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 52 ft. Size 5 1/2 OD in.
Did Well Flow? - Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods. Gas to surface in two minutes on pre-flow.
See attached sheet for gas measurements.

Recovered 490 ft. of foggy heavy oil and gas cut mud
Recovered 180 ft. of clean gsssy oil (Gravity 28)
Recovered ft. of
Recovered ft. of
Recovered ft. of
Remarks:

Time Set Packer(s) 4:00 A.M. Time Started Off Bottom 7:45 A.M. Maximum Temperature 123°
Initial Hydrostatic Pressure (A) 2371 P.S.I.
Initial Flow Period Minutes 30 (B) 212 P.S.I. to (C) 212 P.S.I.
Initial Closed In Period Minutes 45 (D) 1617 P.S.I.
Final Flow Period Minutes 60 (E) 211 P.S.I. to (F) 211 P.S.I.
Final Closed In Period Minutes 90 (G) 1631 P.S.I.
Final Hydrostatic Pressure (H) 2184 P.S.I.

GAS FLOW REPORT

Date 8/27/82 Ticket 16389 Company Molz Oil Company
 Well Name and No. Antrim #2 Dst No. 3 Interval Tested 4408'-4460'
 County Barber State Kansas Sec. 30 Twp. 32S Rg. 10W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
Gas to surface in two minutes. PRE FLOW					
5 min.	6.0 PSIG	1½" orifice			953,000 CFPD
10 min.	8.0 PSIG	1½" orifice			1,123,000 CFPD
20 min.	9.0 PSIG	1½" orifice			1,198,000 CFPD
30 min.	9.0 PSIG	1½" orifice			1,198,000 CFPD

SECOND FLOW					
5 min.	10.0 PSIG	1½" orifice			1,274,000 CFPD
10 min.	11.0 PSIG	1½" orifice			1,348,000 CFPD
20 min.	11.0 PSIG	1½" orifice			1,348,000 CFPD
30 min.	10.0 PSIG	1½" orifice			1,274,000 CFPD
40 min.	10.0 PSIG	1½" orifice			1,274,000 CFPD
50 min.	10.0 PSIG	1½" orifice			1,274,000 CFPD
60 min.	10.0 PSIG	1½" orifice			1,274,000 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled ---- Date to be Invoiced 8/27/82

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 1½% per month, equal to 18% 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 Company
 Authorized by Gordon W. Keen

WESTERN TESTING CO., INC.

Pressure Data

Date 8/27/82 Test Ticket No. 16389

Recorder No. 2607 Capacity 4150 Location 4419 Ft.

Clock No. --- Elevation --- Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2371	P.S.I.	4:00P	M
B First Initial Flow Pressure	212	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	212	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	1617	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	211	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	211	P.S.I.		
G Final Closed-in Pressure	1631	P.S.I.		
H Final Hydrostatic Mud	2184	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>30</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 <u>0</u>	<u>212</u>	<u>0</u>	<u>212</u>	<u>0</u>	<u>211</u>	<u>0</u>	<u>211</u>
P 2 <u>5</u>	<u>212</u>	<u>3</u>	<u>1251</u>	<u>5</u>	<u>211</u>	<u>3</u>	<u>1144</u>
P 3 <u>10</u>	<u>212</u>	<u>6</u>	<u>1378</u>	<u>10</u>	<u>211</u>	<u>6</u>	<u>1286</u>
P 4 <u>15</u>	<u>212</u>	<u>9</u>	<u>1418</u>	<u>15</u>	<u>211</u>	<u>9</u>	<u>1338</u>
P 5 <u>20</u>	<u>212</u>	<u>12</u>	<u>1444</u>	<u>20</u>	<u>211</u>	<u>12</u>	<u>1369</u>
P 6 <u>25</u>	<u>212</u>	<u>15</u>	<u>1469</u>	<u>25</u>	<u>211</u>	<u>15</u>	<u>1393</u>
P 7 <u>30</u>	<u>212</u>	<u>18</u>	<u>1491</u>	<u>30</u>	<u>211</u>	<u>18</u>	<u>1420</u>
P 8 _____		<u>21</u>	<u>1507</u>	<u>35</u>	<u>211</u>	<u>21</u>	<u>1440</u>
P 9 _____		<u>24</u>	<u>1525</u>	<u>40</u>	<u>211</u>	<u>24</u>	<u>1460</u>
P10 _____		<u>27</u>	<u>1545</u>	<u>45</u>	<u>211</u>	<u>27</u>	<u>1480</u>
P11 _____		<u>30</u>	<u>1562</u>	<u>50</u>	<u>211</u>	<u>30</u>	<u>1498</u>
P12 _____		<u>33</u>	<u>1577</u>	<u>55</u>	<u>211</u>	<u>33</u>	<u>1511</u>
P13 _____		<u>36</u>	<u>1587</u>	<u>60</u>	<u>211</u>	<u>36</u>	<u>1526</u>
P14 _____		<u>39</u>	<u>1597</u>			<u>39</u>	<u>1536</u>
P15 _____		<u>42</u>	<u>1607</u>			<u>42</u>	<u>1544</u>
P16 _____		<u>45</u>	<u>1617</u>			<u>45</u>	<u>1553</u>
P17 _____						<u>48</u>	<u>1561</u>
P18 _____						<u>51</u>	<u>1568</u>
P19 _____						<u>54</u>	<u>1577</u>
P20 _____						<u>57</u>	<u>1585</u>
						<u>60</u>	<u>1591</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 8/27/82 Test Ticket No. 16389

Recorder No. 2607 Capacity 4150 Location 4419 Ft.

Clock No. --- Elevation --- Well Temperature 123 °F

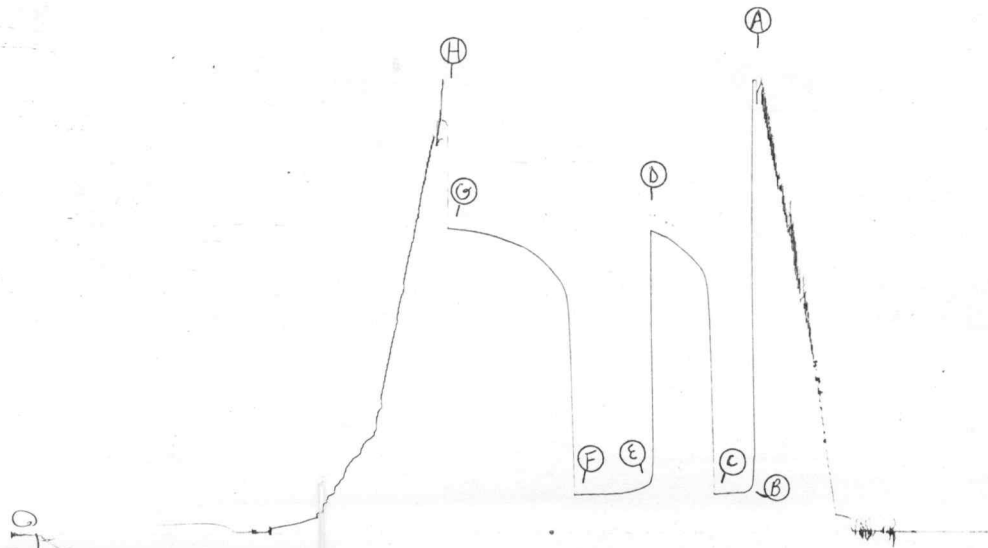
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2371	P.S.I.	4:00P	M
B First Initial Flow Pressure	212	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	212	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	1617	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	211	P.S.I.	90	Mins. 90 Mins.
F Second Final Flow Pressure	211	P.S.I.		
G Final Closed-in Pressure	1631	P.S.I.		
H Final Hydrostatic Mud	2184	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>30</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						63	1596
P 2						66	1601
P 3						69	1606
P 4						72	1611
P 5						75	1616
P 6						78	1620
P 7						81	1623
P 8						84	1625
P 9						87	1627
P10						90	1629
P11						93	1631
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 16389

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Company Molz Oil Company Lease & Well No. #2 Antrim

Elevation = Formation Mississippi Effective Pay -- Ft. Ticket No. 16390

Date 8/ 28 /82 Sec. 30 Twp. 32S Range 10W County Barber State Kansas

Test Approved by Gordon W. Keen Western Representative Jim Wondra

Formation Test No. 4 Interval Tested from 4478 ft. to 4495 ft. Total Depth 4495 ft.

Packer Depth 4473 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 4478 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4484 ft. Recorder Number 2607 Cap. 4150

Bottom Recorder Depth (Outside) 4481 ft. Recorder Number 3351 Cap. 4000

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Sweetman Drlg. Rig #1 Drill Collar Length 280 I. D. 2 1/4 in.

Mud Type ----- Viscosity 48 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 12.0 cc. Drill Pipe Length 4169 I. D. 3.8 in.

Chlorides --- P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 410 Anchor Length 17 ft. Size 5 1/2 OD in.

Did Well Flow? Yes Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow throughout flow periods. Gas to surface in thirty minutes on pre-flow.

See attached sheet for gas measurements.

Recovered 135 ft. of oil and gas cut mud

Recovered 180 ft. of gas and water cut muddy oil (45% oil) (20% water)

Recovered 60 ft. of salt water Chlorides 130,000 ppm

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:40 ~~P.M.~~ A.M. Time Started Off Bottom 12:25 ~~P.M.~~ A.M. Maximum Temperature 123°

Initial Hydrostatic Pressure 2399 (A) P.S.I.

Initial Flow Period 30 Minutes (B) 97 P.S.I. to (C) 100 P.S.I.

Initial Closed In Period 45 Minutes (D) 1155 P.S.I.

Final Flow Period 60 Minutes (E) 139 P.S.I. to (F) 150 P.S.I.

Final Closed In Period 90 Minutes (G) 1268 P.S.I.

Final Hydrostatic Pressure 2386 (H) P.S.I.

GAS FLOW REPORT

Date 8/28/82 Ticket 16390 Company Molz Oil Company
 Well Name and No. Antrim #2 Dst No. 4 Interval Tested 4478'-4495'
 County Barber State Kansas Sec. 30 Twp. 32S Rg. 10W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
Gas to surface in thirty minutes. PRE FLOW					

SECOND FLOW					
5 min.	8" of water	1/4" orifice			4,760 CFPD
10 min.	6" of water	1/4" orifice			4,120 CFPD
20 min.	6" of water	1/4" orifice			4,120 CFPD
30 min.	6" of water	1/4" orifice			4,120 CFPD
40 min.	6" of water	1/4" orifice			4,120 CFPD
50 min.	5" of water	1/4" orifice			3,710 CFPD
60 min.	5" of water	1/4" orifice			3,710 CFPD

GAS BOTTLE

Serial No. --- Date Bottle Filled --- Date to be Invoiced 8/28/82

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 11½% per month, equal to 18% 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 Company
 Authorized by Gordon W. Keen

WESTERN TESTING CO., INC.

Pressure Data

Date 8/28/82 Test Ticket No. 16390
 Recorder No. 2607 Capacity 4150 Location 4484 Ft. 123
 Clock No. -- Elevation -- Well Temperature 123 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2399 P.S.I. Open Tool 8:40A M
 B First Initial Flow Pressure 97 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 100 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 D Initial Closed-in Pressure 1155 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 139 P.S.I. Final Closed-in Pressure 90 Mins. 90 Mins.
 F Second Final Flow Pressure 150 P.S.I.
 G Final Closed-in Pressure 1268 P.S.I.
 H Final Hydrostatic Mud 2386 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>30</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 <u>0</u>	<u>97</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>139</u>	<u>0</u>	<u>150</u>
P 2 <u>5</u>	<u>97</u>	<u>3</u>	<u>201</u>	<u>5</u>	<u>139</u>	<u>3</u>	<u>405</u>
P 3 <u>10</u>	<u>97</u>	<u>6</u>	<u>379</u>	<u>10</u>	<u>139</u>	<u>6</u>	<u>552</u>
P 4 <u>15</u>	<u>97</u>	<u>9</u>	<u>531</u>	<u>15</u>	<u>139</u>	<u>9</u>	<u>658</u>
P 5 <u>20</u>	<u>97</u>	<u>12</u>	<u>650</u>	<u>20</u>	<u>139</u>	<u>12</u>	<u>739</u>
P 6 <u>25</u>	<u>97</u>	<u>15</u>	<u>744</u>	<u>25</u>	<u>140</u>	<u>15</u>	<u>809</u>
P 7 <u>30</u>	<u>100</u>	<u>18</u>	<u>820</u>	<u>30</u>	<u>141</u>	<u>18</u>	<u>862</u>
P 8		<u>21</u>	<u>884</u>	<u>35</u>	<u>142</u>	<u>21</u>	<u>908</u>
P 9		<u>24</u>	<u>939</u>	<u>40</u>	<u>143</u>	<u>24</u>	<u>947</u>
P10		<u>27</u>	<u>986</u>	<u>45</u>	<u>145</u>	<u>27</u>	<u>981</u>
P11		<u>30</u>	<u>1027</u>	<u>50</u>	<u>147</u>	<u>30</u>	<u>1006</u>
P12		<u>33</u>	<u>1064</u>	<u>55</u>	<u>149</u>	<u>33</u>	<u>1032</u>
P13		<u>36</u>	<u>1093</u>	<u>60</u>	<u>150</u>	<u>36</u>	<u>1053</u>
P14		<u>39</u>	<u>1113</u>			<u>39</u>	<u>1070</u>
P15		<u>42</u>	<u>1132</u>			<u>42</u>	<u>1089</u>
P16		<u>45</u>	<u>1155</u>			<u>45</u>	<u>1105</u>
P17						<u>48</u>	<u>1120</u>
P18						<u>51</u>	<u>1137</u>
P19						<u>54</u>	<u>1152</u>
P20						<u>57</u>	<u>1164</u>
						<u>60</u>	<u>1175</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 8/28/82 Test Ticket No. 16390
 Recorder No. 2607 Capacity 4150 Location 4484 Ft.
 Clock No. -- Elevation -- Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2399 P.S.I.	Open Tool	8:40A	M
B First Initial Flow Pressure	97 P.S.I.	First Flow Pressure	30	Mins. 30 Mins.
C First Final Flow Pressure	100 P.S.I.	Initial Closed-in Pressure	45	Mins. 45 Mins.
D Initial Closed-in Pressure	1155 P.S.I.	Second Flow Pressure	60	Mins. 60 Mins.
E Second Initial Flow Pressure	139 P.S.I.	Final Closed-in Pressure	90	Mins. 90 Mins.
F Second Final Flow Pressure	150 P.S.I.			
G Final Closed-in Pressure	1268 P.S.I.			
H Final Hydrostatic Mud	2386 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>30</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						63	1188
P 2						66	1199
P 3						69	1209
P 4						72	1219
P 5						75	1229
P 6						78	1237
P 7						81	1248
P 8						84	1257
P 9						87	1263
P10						90	1268
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 16390

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