

Company Molz Oil Company Lease & Well No. Molz #7
 Elevation --- Formation Marmaton Effective Pay ---- Ft. Ticket No. 18343
 Date 12/13 /82 Sec. 2 Twp. 35S Range 12W County Barber State Kansas
 Test Approved by Gordon W. Keen Western Representative Jeff Piotrowski

Formation Test No. 1 Interval Tested from 4718 ft. to 4740 ft. Total Depth 4740 ft.
 Packer Depth 4713 ft. Size 6 3/4 in. Packer Depth --- ft. Size - in.
 Packer Depth 4718 ft. Size 6 3/4 in. Packer Depth --- ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4730 ft. Recorder Number 1565 Cap. 4900
 Bottom Recorder Depth (Outside) 4733 ft. Recorder Number 6074 Cap. 5100
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Sweetman Drlg. Rig #1 Drill Collar Length 270 I. D. 2.2 in.
 Mud Type starch Viscosity 50 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 7.0 cc. Drill Pipe Length 4428 I. D. 3.8 in.
 Chlorides N/C P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 22 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 XH in.

Blow: Strong through both flow periods.

Recovered 900 ft. of gas in pipe
 Recovered 45 ft. of gas cut mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 10:00 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 1:45 ~~P.M.~~ ^{A.M.} Maximum Temperature 120°
 Initial Hydrostatic Pressure 2453 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 21 P.S.I. to (C) 21 P.S.I.
 Initial Closed In Period 45 Minutes (D) 639 P.S.I.
 Final Flow Period 60 Minutes (E) 12 P.S.I. to (F) 20 P.S.I.
 Final Closed In Period 90 Minutes (G) 1137 P.S.I.
 Final Hydrostatic Pressure 2438 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 12/13/82 Test Ticket No. 18343
 Recorder No. 1565 Capacity 4900 Location 4730 Ft.
 Clock No. -- Elevation --- Well Temperature 120 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>2453</u> P.S.I. | Open Tool | <u>10:00A</u> | <u>M</u> |
| B First Initial Flow Pressure | <u>21</u> P.S.I. | First Flow Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| C First Final Flow Pressure | <u>21</u> P.S.I. | Initial Closed-in Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| D Initial Closed-in Pressure | <u>639</u> P.S.I. | Second Flow Pressure | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>12</u> P.S.I. | Final Closed-in Pressure | <u>90</u> Mins. | <u>90</u> Mins. |
| F Second Final Flow Pressure | <u>20</u> P.S.I. | | | |
| G Final Closed-in Pressure | <u>1137</u> P.S.I. | | | |
| H Final Hydrostatic Mud | <u>2438</u> P.S.I. | | | |

PRESSURE BREAKDOWN

| Point Mins. | First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|---------------|-----------------------------|---------------|-----------------------------|---------------|-----------------------------|---------------|-----------------------------|------|
| | Breakdown: | Inc. | Breakdown: | Inc. | Breakdown: | Inc. | Breakdown: | Inc. |
| | of <u>6</u> mins. and a | | of <u>15</u> mins. and a | | of <u>12</u> mins. and a | | of <u>30</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>21</u> | <u>0</u> | <u>21</u> | <u>0</u> | <u>12</u> | <u>0</u> | <u>20</u> | |
| P 2 <u>5</u> | <u>21</u> | <u>3</u> | <u>71</u> | <u>5</u> | <u>12</u> | <u>3</u> | <u>67</u> | |
| P 3 <u>10</u> | <u>21</u> | <u>6</u> | <u>115</u> | <u>10</u> | <u>12</u> | <u>6</u> | <u>125</u> | |
| P 4 <u>15</u> | <u>21</u> | <u>9</u> | <u>163</u> | <u>15</u> | <u>12</u> | <u>9</u> | <u>181</u> | |
| P 5 <u>20</u> | <u>21</u> | <u>12</u> | <u>214</u> | <u>20</u> | <u>14</u> | <u>12</u> | <u>235</u> | |
| P 6 <u>25</u> | <u>21</u> | <u>15</u> | <u>256</u> | <u>25</u> | <u>15</u> | <u>15</u> | <u>289</u> | |
| P 7 <u>30</u> | <u>21</u> | <u>18</u> | <u>303</u> | <u>30</u> | <u>16</u> | <u>18</u> | <u>337</u> | |
| P 8 | | <u>21</u> | <u>346</u> | <u>35</u> | <u>17</u> | <u>21</u> | <u>385</u> | |
| P 9 | | <u>24</u> | <u>388</u> | <u>40</u> | <u>17</u> | <u>24</u> | <u>440</u> | |
| P10 | | <u>27</u> | <u>428</u> | <u>45</u> | <u>17</u> | <u>27</u> | <u>487</u> | |
| P11 | | <u>30</u> | <u>468</u> | <u>50</u> | <u>18</u> | <u>30</u> | <u>530</u> | |
| P12 | | <u>33</u> | <u>509</u> | <u>55</u> | <u>19</u> | <u>33</u> | <u>572</u> | |
| P13 | | <u>36</u> | <u>550</u> | <u>60</u> | <u>20</u> | <u>36</u> | <u>614</u> | |
| P14 | | <u>39</u> | <u>589</u> | | | <u>39</u> | <u>656</u> | |
| P15 | | <u>42</u> | <u>626</u> | | | <u>42</u> | <u>695</u> | |
| P16 | | <u>45</u> | <u>639</u> | | | <u>45</u> | <u>730</u> | |
| P17 | | | | | | <u>48</u> | <u>765</u> | |
| P18 | | | | | | <u>51</u> | <u>800</u> | |
| P19 | | | | | | <u>54</u> | <u>832</u> | |
| P20 | | | | | | <u>57</u> | <u>864</u> | |
| | | | | | | <u>60</u> | <u>896</u> | |

WESTERN TESTING CO., INC.
Pressure Data

Date 12/13/82

Test Ticket No. 18343

Recorder No. 1565 Capacity 4900 Location 4730 Ft.

Clock No. -- Elevation --- Well Temperature 120 °F

| Point | Pressure | | | Time Given | Time Computed |
|--------------------------------|----------|--------|----------------------------|------------|----------------|
| | | | | | |
| A Initial Hydrostatic Mud | 2453 | P.S.I. | Open Tool | 10:00A | M |
| B First Initial Flow Pressure | 21 | P.S.I. | First Flow Pressure | 30 | Mins. 30 Mins. |
| C First Final Flow Pressure | 21 | P.S.I. | Initial Closed-in Pressure | 45 | Mins. 45 Mins. |
| D Initial Closed-in Pressure | 639 | P.S.I. | Second Flow Pressure | 60 | Mins. 60 Mins. |
| E Second Initial Flow Pressure | 12 | P.S.I. | Final Closed-in Pressure | 90 | Mins. 90 Mins. |
| F Second Final Flow Pressure | 20 | P.S.I. | | | |
| G Final Closed-in Pressure | 1137 | P.S.I. | | | |
| H Final Hydrostatic Mud | 2438 | 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: 15 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.

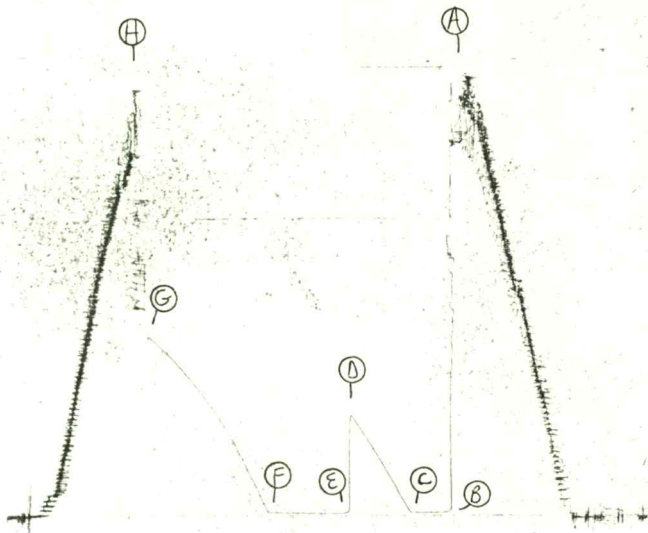
Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

| Point Mins. | Press. | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|----------------|--------|------------------|--------|----------------------|--------|------------------|--------|
| | | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
| P 1 | | | | | | 63 | 925 |
| P 2 | | | | | | 66 | 954 |
| P 3 | | | | | | 69 | 984 |
| P 4 | | | | | | 72 | 1009 |
| P 5 | | | | | | 75 | 1034 |
| P 6 | | | | | | 78 | 1059 |
| P 7 | | | | | | 81 | 1084 |
| P 8 | | | | | | 84 | 1107 |
| P 9 | | | | | | 87 | 1132 |
| P10 | | | | | | 90 | 1137 |
| P11 | | | | | | | |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |

1565
DST #1

TKT # 18343

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Company Molz Oil Company Lease & Well No. Molz #7
 Elevation --- Formation Mizener Sand Effective Pay ---- Ft. Ticket No. 18344
 Date 12/15 /82 Sec. 2 Twp. 35S Range 12W County Barber State Kansas
 Test Approved by Gordon W. Keen Western Representative Jeff Piotrowski

Formation Test No. 2 Interval Tested from 5170 ft. to 5179 ft. Total Depth 5179 ft.
 Packer Depth 5165 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 5170 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5173 ft. Recorder Number 1565 Cap. 4900
 Bottom Recorder Depth (Outside) 5176 ft. Recorder Number 6074 Cap. 5100
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Sweetman Drlg. Rig #1 Drill Collar Length 570 I. D. 2.2 in.
 Mud Type starch Viscosity 61 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 9.0 cc. Drill Pipe Length 4571 I. D. 3.8 in.
 Chlorides N/C P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 9 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 XH in.

Blow: Weak through initial flow period. No blow on final flow period.

Recovered 2 ft. of mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 8:42 A.M. Time Started Off Bottom 10:42 P.M. Maximum Temperature 129°
 Initial Hydrostatic Pressure (A) 2847 P.S.I.
 Initial Flow Period Minutes 30 (B) 22 P.S.I. to (C) 26 P.S.I.
 Initial Closed In Period Minutes 27 (D) 31 P.S.I.
 Final Flow Period Minutes 30 (E) 25 P.S.I. to (F) 25 P.S.I.
 Final Closed In Period Minutes 30 (G) 27 P.S.I.
 Final Hydrostatic Pressure (H) 2847 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/15/82 Test Ticket No. 18344
 Recorder No. 1565 Capacity 4900 Location 5173 Ft.
 Clock No. --- Elevation --- Well Temperature 129 °F

| Point | Pressure | | | Time Given | Time Computed |
|--------------------------------|-------------|--------|----------------------------|--------------|----------------------|
| | | | | | |
| A Initial Hydrostatic Mud | <u>2847</u> | P.S.I. | Open Tool | <u>8:42P</u> | <u>M</u> |
| B First Initial Flow Pressure | <u>22</u> | P.S.I. | First Flow Pressure | <u>30</u> | <u>Mins 30</u> Mins. |
| C First Final Flow Pressure | <u>26</u> | P.S.I. | Initial Closed-in Pressure | <u>30</u> | <u>Mins 27</u> Mins. |
| D Initial Closed-in Pressure | <u>31</u> | P.S.I. | Second Flow Pressure | <u>30</u> | <u>Mins 30</u> Mins. |
| E Second Initial Flow Pressure | <u>25</u> | P.S.I. | Final Closed-in Pressure | <u>30</u> | <u>Mins 30</u> Mins. |
| F Second Final Flow Pressure | <u>25</u> | P.S.I. | | | |
| G Final Closed-in Pressure | <u>27</u> | P.S.I. | | | |
| H Final Hydrostatic Mud | <u>2847</u> | P.S.I. | | | |

PRESSURE BREAKDOWN

| First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|-----------------------------|-----------|-----------------------------|-----------|-----------------------------|-----------|-----------------------------|-----------|
| Breakdown: <u>6</u> Inc. | | Breakdown: <u>9</u> Inc. | | Breakdown: <u>6</u> Inc. | | Breakdown: <u>10</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>22</u> | <u>0</u> | <u>26</u> | <u>0</u> | <u>25</u> | <u>0</u> | <u>25</u> |
| P 2 <u>5</u> | <u>22</u> | <u>3</u> | <u>27</u> | <u>5</u> | <u>25</u> | <u>3</u> | <u>25</u> |
| P 3 <u>10</u> | <u>22</u> | <u>6</u> | <u>28</u> | <u>10</u> | <u>25</u> | <u>6</u> | <u>25</u> |
| P 4 <u>15</u> | <u>22</u> | <u>9</u> | <u>29</u> | <u>15</u> | <u>25</u> | <u>9</u> | <u>25</u> |
| P 5 <u>20</u> | <u>24</u> | <u>12</u> | <u>30</u> | <u>20</u> | <u>25</u> | <u>12</u> | <u>26</u> |
| P 6 <u>25</u> | <u>25</u> | <u>15</u> | <u>30</u> | <u>25</u> | <u>25</u> | <u>15</u> | <u>26</u> |
| P 7 <u>30</u> | <u>26</u> | <u>18</u> | <u>31</u> | <u>30</u> | <u>25</u> | <u>18</u> | <u>26</u> |
| P 8 _____ | _____ | <u>21</u> | <u>31</u> | _____ | _____ | <u>21</u> | <u>26</u> |
| P 9 _____ | _____ | <u>24</u> | <u>31</u> | _____ | _____ | <u>24</u> | <u>27</u> |
| P10 _____ | _____ | <u>27</u> | <u>31</u> | _____ | _____ | <u>27</u> | <u>27</u> |
| P11 _____ | _____ | _____ | _____ | _____ | _____ | <u>30</u> | <u>27</u> |
| P12 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| P13 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| P14 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| P15 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| P16 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| P17 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| P18 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| P19 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| P20 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

1565

DST# 2

TKT # 18344

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