

DIAMOND TESTING, LLC P.O. Box 157 HOISINGTON, KANSAS 67544 (620) 653-7550 • (800) 542-7313

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molz24dst1

| CompanyChieftain Oil Co | mpany, Inc. | | | _Lease & | Well No. Mo | lz No. 24 | | | |
|--|--|--------------|-----------|---------------------------------------|---------------|----------------------|--|------------|-------------------------------|
| Elevation 1386 GL Fo | rmation Misener | | | | e Pay | | | . Ticket | No. K163 |
| Date 9-1-14 Sec. | 11 Twp. | 35S | Range | 40144 | County | | Stat | | Kansas |
| Test Approved By | | er | C | Diamond R | epresentative | | Jasor | McLemo | re |
| Formation Test No1 | Interval Teste | d from | | 5,171 _{ft. to} | о{ | 5,204 _{ft.} | Total De | oth | 5,204 _{ft} |
| Packer Depth5,2 | | | | | Packer Depth | | | | |
| Packer Depth5,1 | | 6 3/4 | in. | | Packer Depth | | | | |
| Depth of Selective Zone S | | | | | | | | | |
| Top Recorder Depth (Insid | e) | 5,152 | ft. | | Recorder Nur | nber | 5513 | Сар | 5,000 psi. |
| Bottom Recorder Depth (O | utside) | 5,153 | ft. | | Recorder Nur | nber | 5588 | Сар | 6,000 psi. |
| Below Straddle Recorder D | Depth | | _ft. | | Recorder Nur | nber | | Сар | psi. |
| Drilling Contractor Fossil E | | | | Drill Col | lar Length | | 148 | ft I.D | 2 1/4 in. |
| Mud Type Chemical | Viscosity | 54 | | | | | | | in. |
| Weight9.5 | Water Loss | 12.0 | cc. | | | | | | <u> </u> |
| Chlorides3,8 | <u>00 </u> | P.P.M. | | Test Too | I Length | | 32 | ft Tool Si | ze <u>3 1/2-IF</u> in. |
| Jars: Make Sterling | Serial Numl | ber6 | | Anchor | Length | | 33 | ft. Size | 4 1/2-FH in. |
| Did Well Flow? No F | Reversed Out | No | | Surface | Choke Size_ | 1 _{in.} | Bottom | Choke Si | ze <u>^{5/8} in</u> . |
| | | | | Main Ho | le Size | 7 7/8_in | . Tool J | oint Size_ | <u>4-FH</u> in. |
| Blow: 1st Open: Hit bridge 4 sta 2nd Open: N/A | nds off bottom. Pulle | d tool. | | · · · · · · · · · · · · · · · · · · · | | | | | |
| Recoveredft. of | | | | | | | | | |
| Recoveredft. of | | | | | | | | | |
| Recoveredft. of | | | | | | | | | |
| Recoveredft. of | | | | | | | | | |
| Recoveredft. of | | | | | | | | | |
| Recoveredft. of | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Time Set Packer(s) | Time | e Started of | ff Bottor | n | , | Maxim | um Tempe | erature | |
| Initial Hydrostatic Pressure | | ••••• | (A) | | P.S.I | | | | |
| Initial Flow Period | Minutes | 0 | (B) | | P.S.I | . to (C)_ | | F | P.S.I. |
| Initial Closed In Period | Minutes | 0 | (D)_ | | <u> </u> | Ι. | | | |
| Final Flow Period | Minutes | 0 | (E) | | P.S.I | to (F)_ | ······································ | | P.S.I. |
| Final Closed In Period | Minutes | 0 | (G)_ | <u></u> | <u> </u> | • | | | |
| Final Hydrostatic Pressure. | | ••••• | (H)_ | | P.S.I | | | | |



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JASON MCLEMORE

CELL # 620-617-0527

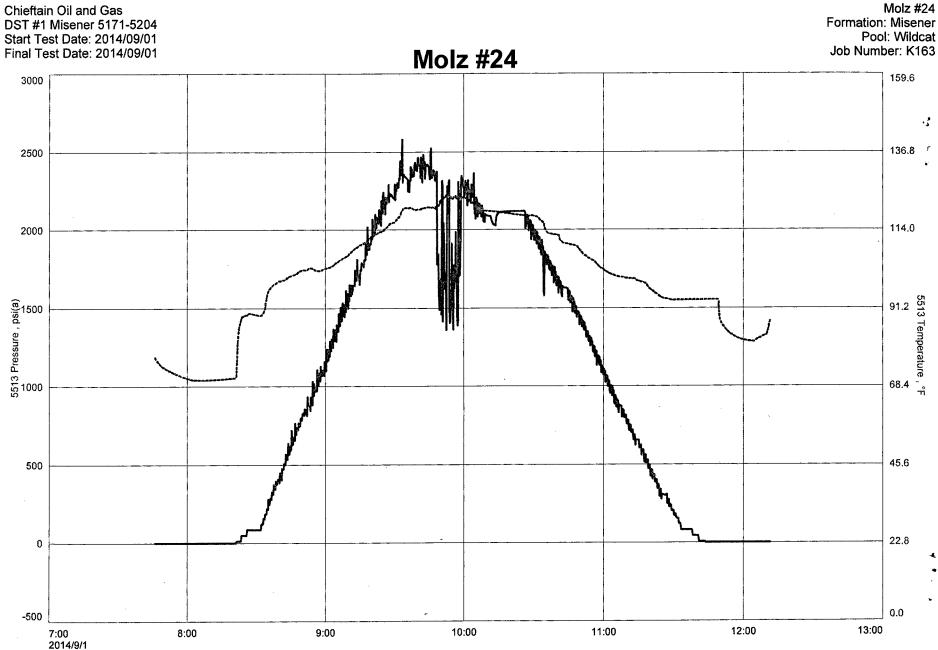
General Information

| Company Name Contact Well Name Unique Well ID Surface Location Field Well Type | Molz #24 DST #1 Misener 5171-5204 11-35s-12w-Barber Wildcat | | K163 Jason McLemore Chieftain Oil and Gas Jason McLemore Dave Barker 6 |
|--|--|-----------------|---|
| Test Information | | | |
| Test Type | 01 Oil | Representative | Jason McLemore |
| Formation | | Well Operator | Chieftain Oil and Gas |
| Well Fluid Type | | Report Date | 2014/09/01 |
| Test Purpose (AEI | | Prepared By | Jason McLemore |
| Start Test Date | | Start Test Time | 07:46:00 |
| Final Test Date | | Final Test Time | 12:17:00 |

Test Results

Hit bridge 4 stands off bottom. Pulled tool.

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5513-Time

NOMENCLATURE

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| Ь | <u> </u> | Feet |
|-----------------|--|---------------|
| b١ | - Approximate Radius of Investigation (Net Pay Zone h ¹) | Feet |
| D.R. | 💳 Damage Ratio | |
| ÉI | 😑 Elevation | Feet |
| GD | B.T. Gauge Depth (From Surface Reference) | Feet |
| h | 😑 Interval Tested | Feet |
| h1 | — Net Pay Thickness | Feet |
| К | - Permeability | md |
| K١ | Permeability (From Net Pay Zone h ¹) | md |
| m | — Slope Extrapolated Pressure Plot (Psi ² /cycle Gas) | psi/cycle |
| OF ¹ | - Maximum Indicated Flow Rate | MCF/D |
| OF ² | - Minimum Indicated Flow Rate | MCF/D |
| OF ³ | - Theoretical Open Flow Potential with/Damage Removed Max. | MCF/D |
| OF ⁴ | — Theoretical Open Flow Potential with/Damage Removed Min. | MCF/D· |
| ps | Extrapolated Static Pressure | Psig. |
| PF | - Final Flow Pressure | Psig. |
| Рот | — Potentiometric Surface (Fresh Water*) | Feet |
| Q | - Average Adjusted Production Rate During Test | bbls/day |
| Q1 | | bbls/day |
| Q۶ | Measured Gas Production Rate | MCF/D |
| R | - Corrected Recovery | bbls |
| r w | 😑 Radius of Well Bore | Feet |
| t | - Flow Time | Minutes |
| t º | — Total Flow Time | Minutes |
| T | Temperature Rankine | . ¤R |
| z | 😑 Compressibility Factor | . |
| U | — Viscosity Gas or Liquid | CP |
| Log | - Common Log | |
| | * Potentiometric Surface Reference to Rotary Table When Elevation Given, Fresh Water Corrected to 100° F. | Not |



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molz24dst2

| Company Chieftain Oil Comp | | | | _Lease & W | | | | | K164 |
|--|-----------------|--------|-------------------|----------------------|-------------|----------------------|-----------|----------|-------------------------|
| Elevation 1386 GL Forma | | 35S | | Effective F 12W 0 | - | D 1 | | 14 | NO |
| Date <u>9-1-14</u> Sec. | | | _Range_ | | County | | State | McLemore | |
| Test Approved By | | | C | Diamond Rep | resentative | | | | |
| Formation Test No2 | Interval Tester | d from | | <u>5,171</u> ft. to | | 5,204 _{ft.} | Total Dep | tht | 5,204 _{ft} |
| Packer Depth 5,166 | | ~ ~ | /4_in. | Pa | cker Depth |) | | | |
| Packer Depth 5,171 | | 6 3/ | / <u>4</u> in. | | cker Depth | | | | |
| Depth of Selective Zone Set_ | 1618 | | _ft. | | | | | | |
| Top Recorder Depth (Inside) | | 5,15 | 52 _{ft.} | Re | corder Nu | mber | 5513 | Сар | 5,000 psi. |
| Bottom Recorder Depth (Outs | ide) | 5,1 | 53 _{ft.} | Re | corder Nui | nber | | | 6,000 _{psi.} |
| Below Straddle Recorder Dep | th | | ft. | Re | corder Nu | nber | | | psi. |
| Drilling Contractor Fossil Drill | ing, Inc Rig 2 | • | | Drill Collar | Length | | 148 f | I.D. | 2 1/4 in. |
| Mud Type Chemical | Viscosity | = 1 | | | | | | | <u> </u> |
| | Water Loss | | CC. | | | | | | 3 in. |
| Chlorides 3,800 | | P.P.M. | | | | | | | e_31/2-IF in. |
| Jars: Make Sterling | Serial Numb | oer | 6 | | | | | | 4 1/2-FH _{in.} |
| Did Well Flow? No Rev | ersed Out | No | | Surface Ch | | | | | e <u> </u> |
| | | | | Main Hole | Size | 7 7/8 in | | | 4-FH in. |
| Blow: 1st Open: 16 ft. of fill on botto 2nd Open: N/A Recovered ft. of Recovered ft. of Recovered ft. of | | | | | | | | | |
| Recoveredft. of | | | | | | | | | <u> </u> |
| Recoveredft. of | | | | | | | | | |
| Recoveredft. of | | | | | | | | | |
| Remarks_MISRUN! | | | | | | | | | |
| Time Set Packer(s) | | | | | ····· | | um Tempe | rature | ÷ |
| Initial Hydrostatic Pressure | | | • / | | | | | | |
| Initial Flow Period | | 0 | | | | • / | | P.: | S.I. |
| Initial Closed In Period | · | | (D) | | P.S. | | | | |
| Final Flow Period | | 0 | | | | | | F | P.S.I. |
| Final Closed In Period | | | | | P.S.I | | | | |
| Final Hydrostatic Pressure | •••••• | | (H)_ | | P.S.I | • | | | |



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JASON MCLEMORE

CELL # 620-617-0527

General Information

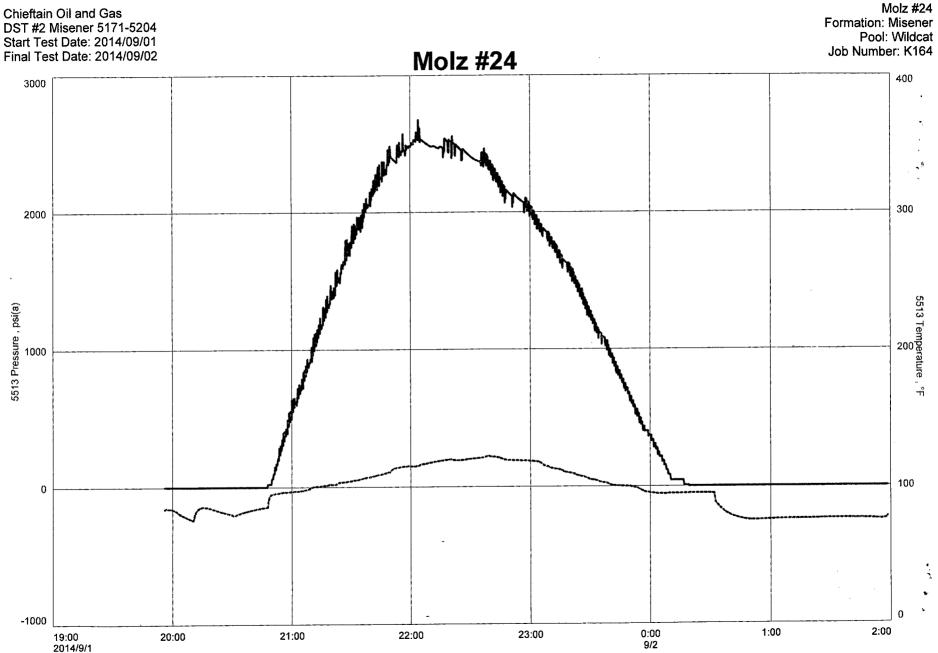
| Company Name C | Chieftain Oil and Gas |
|--|---|
| Contact | Ron Molz Job Number K164 |
| Well Name | Molz #24 Representative Jason McLemore |
| Unique Well ID | DST #2 Misener 5171-5204 Well Operator |
| Surface Location | 11-35s-12w-Barber Prepared By Jason McLemore |
| Field | Wildcat Qualified By Dave Barker |
| Well Type | Vertical Test Unit 6 |
| Test Information | |
| Test Type Formation Well Fluid Type Test Purpose (AEI | Representative Jason McLemore Drill Stem Test Well Operator Chieftain Oil and Gas Misener Report Date 2014/09/02 01 Oil Prepared By Jason McLemore JB) Initial Test |
| Start Test Date | 2014/09/01 Start Test Time 19:56:00 |
| Final Test Date | 2014/09/02 Final Test Time 02:00:00 |

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Test Results

16' of fill on bottom. Operator opted to look at it on the log. Pulled tool.

C:\Users\Roger Friedly\Desktop\molz24dst2 02-Sep-14



NOMENCLATURE

بالم المريدة

| b | <u> </u> | Feet |
|-----------------|--|-----------|
| b١ | - Approximate Radius of Investigation (Net Pay Zone h ¹) | Feet |
| D.R. | Damage Ratio | ····· |
| EI | <u> </u> | Feet |
| GD | <u> </u> | Feet |
| h | Interval Tested | Feet |
| h1 | <u> </u> | Feet |
| к | 😑 Permeability | md |
| Κ¹ | <u> </u> | md |
| m | <u> </u> | psi/cycle |
| OF ¹ | - Maximum Indicated Flow Rate | MCF/D |
| OF ² | - Minimum Indicated Flow Rate | MCF/D |
| OF3 | = Theoretical Open Flow Potential with/Damage Removed Max | MCF/D |
| OF₄ | — Theoretical Open Flow Potential with/Damage Removed Min | MCF/D |
| ₽\$ | <u> </u> | Psig. |
| PF | - Final Flow Pressure | Psig. |
| P °T | - Potentiometric Surface (Fresh Water*) | Feet |
| Q | - Average Adjusted Production Rate During Test | bbls/day |
| Q1 | - Theoretical Production w/Damage Removed | bbls/day |
| Q9 | <u> </u> | MCF/D |
| R | <u> </u> | bbls |
| r w | 🚃 Radius of Well Bore | Feet |
| t | = Flow Time | Minutes |
| t o | 💳 Total Flow Time | Minutes |
| T | = Temperature Rankine | ¤R |
| z | <u> </u> | ····· |
| U | - Viscosity Gas or Liquid | СР |
| Log | Common Log | |
| | * Potentiemetric Surface Deference to Determ. Telete Miles. El | |

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.