

Company Range Oil Company, Inc. Lease & Well No. Jacot #3
 Elevation - Formation Kansas City Effective Pay - Ft. Ticket No. 14732
 Date 2/28/82 Sec. 11 Twp. 32S Range 10E County Elk State Kansas
 Test Approved by Tim J Lauer Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 1296 ft. to 1340 ft. Total Depth 1340 ft.
 Packer Depth 1291 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 1296 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 1299 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 1302 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drilling Drill Collar Length 150 I. D. 2 1/4 in.
 Mud Type - Viscosity - Weight Pipe Length - I. D. - in.
 Weight - Water Loss - cc. Drill Pipe Length 1125 I. D. 3.8 in.
 Chlorides - P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 44 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: Very weak blow throughout test.

Recovered 20 ft. of drilling mud
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 10:40 ~~A.M.~~ P.M. Time Started Off Bottom 12:40 ~~A.M.~~ P.M. Maximum Temperature 87
 Initial Hydrostatic Pressure (A) 616 P.S.I.
 Initial Flow Period Minutes 30 (B) 54 P.S.I. to (C) 54 P.S.I.
 Initial Closed In Period Minutes 30 (D) 349 P.S.I.
 Final Flow Period Minutes 30 (E) 68 P.S.I. to (F) 68 P.S.I.
 Final Closed In Period Minutes 30 (G) 328 P.S.I.
 Final Hydrostatic Pressure (H) 601 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 2-28-82 Test Ticket No. 14732
 Recorder No. 2607 Capacity 4150 Location 1299 Ft.
 Clock No. - Elevation - Well Temperature 87 °F

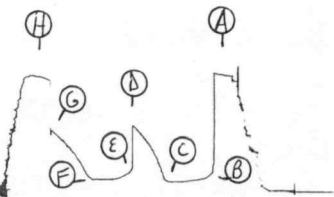
| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|-------------------|----------------------------|------------------|-----------------|
| A Initial Hydrostatic Mud | <u>616</u> P.S.I. | Open Tool | <u>10:40P.</u> M | |
| B First Initial Flow Pressure | <u>54</u> P.S.I. | First Flow Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| C First Final Flow Pressure | <u>54</u> P.S.I. | Initial Closed-in Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| D Initial Closed-in Pressure | <u>349</u> P.S.I. | Second Flow Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| E Second Initial Flow Pressure | <u>68</u> P.S.I. | Final Closed-in Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| F Second Final Flow Pressure | <u>68</u> P.S.I. | | | |
| G Final Closed-in Pressure | <u>328</u> P.S.I. | | | |
| H Final Hydrostatic Mud | <u>601</u> P.S.I. | | | |

PRESSURE BREAKDOWN

| First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min. | | Initial Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min. | | Second Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min. | | Final Shut-In Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a 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>54</u> | <u>0</u> <u>54</u> | <u>0</u> <u>54</u> | <u>0</u> <u>68</u> | <u>68</u> | <u>0</u> <u>68</u> | <u>68</u> |
| P 2 | <u>5</u> <u>54</u> | <u>3</u> <u>54</u> | <u>3</u> <u>54</u> | <u>5</u> <u>68</u> | <u>68</u> | <u>3</u> <u>89</u> | <u>89</u> |
| P 3 | <u>10</u> <u>54</u> | <u>6</u> <u>63</u> | <u>6</u> <u>63</u> | <u>10</u> <u>68</u> | <u>68</u> | <u>6</u> <u>131</u> | <u>131</u> |
| P 4 | <u>15</u> <u>54</u> | <u>9</u> <u>123</u> | <u>9</u> <u>123</u> | <u>15</u> <u>68</u> | <u>68</u> | <u>9</u> <u>166</u> | <u>166</u> |
| P 5 | <u>20</u> <u>54</u> | <u>12</u> <u>178</u> | <u>12</u> <u>178</u> | <u>20</u> <u>68</u> | <u>68</u> | <u>12</u> <u>198</u> | <u>198</u> |
| P 6 | <u>25</u> <u>54</u> | <u>15</u> <u>222</u> | <u>15</u> <u>222</u> | <u>25</u> <u>68</u> | <u>68</u> | <u>15</u> <u>227</u> | <u>227</u> |
| P 7 | <u>30</u> <u>54</u> | <u>18</u> <u>254</u> | <u>18</u> <u>254</u> | <u>30</u> <u>68</u> | <u>68</u> | <u>18</u> <u>248</u> | <u>248</u> |
| P 8 | | <u>21</u> <u>283</u> | <u>21</u> <u>283</u> | | | <u>21</u> <u>273</u> | <u>273</u> |
| P 9 | | <u>24</u> <u>311</u> | <u>24</u> <u>311</u> | | | <u>24</u> <u>291</u> | <u>291</u> |
| P10 | | <u>27</u> <u>333</u> | <u>27</u> <u>333</u> | | | <u>27</u> <u>309</u> | <u>309</u> |
| P11 | | <u>30</u> <u>349</u> | <u>30</u> <u>349</u> | | | <u>30</u> <u>328</u> | <u>328</u> |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |

TKT # 14732

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LD

Company Range Oil Company, Inc. Lease & Well No. Jacot #3
 Elevation 1 - Formation - Effective Pay - Ft. Ticket No. 10044
 Date 3/1/82 Sec. 11 Twp. 32S Range 10E County Chautauqua State Kansas
 Test Approved by Tim J. Lauer Western Representative Robert Davis

Formation Test No. 2 Interval Tested from 1606 ft. to 1628 ft. Total Depth 1628 ft.
 Packer Depth 1606 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 1601 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 1611 ft. Recorder Number 1049 Cap. 4250
 Bottom Recorder Depth (Outside) 1615 ft. Recorder Number 13268 Cap. 4225
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Rig #2 Drill Collar Length 151 I. D. - in.
 Mud Type Chemical Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 1435 I. D. - in.
 Chlorides 1200 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 22 ft. Size 5 1/2 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 blow throughout test.

Recovered 150 ft. of gas in pipe
 Recovered 5 ft. of oil & gas cut mud - 20% oil
 Recovered 30 ft. of oil cut mud - 5% oil
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 6:10 ~~AM~~ P.M. Time Started Off Bottom 8:10 ~~AM~~ P.M. Maximum Temperature 89
 Initial Hydrostatic Pressure 765 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 20 P.S.I. to (C) 20 P.S.I.
 Initial Closed In Period 30 Minutes (D) 88 P.S.I.
 Final Flow Period 30 Minutes (E) 28 P.S.I. to (F) 28 P.S.I.
 Final Closed In Period 30 Minutes (G) 81 P.S.I.
 Final Hydrostatic Pressure 765 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 3/1/82 Recorder No. 1049 Capacity 4250 Test Ticket No. 10044
 Location 1611 Ft. Clock No. - Elevation - Well Temperature 89 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|-------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>765</u> P.S.I. | Open Tool | <u>6:10P</u> M | |
| B First Initial Flow Pressure | <u>20</u> P.S.I. | First Flow Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| C First Final Flow Pressure | <u>20</u> P.S.I. | Initial Closed-in Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| D Initial Closed-in Pressure | <u>88</u> P.S.I. | Second Flow Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| E Second Initial Flow Pressure | <u>28</u> P.S.I. | Final Closed-in Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| F Second Final Flow Pressure | <u>28</u> P.S.I. | | | |
| G Final Closed-in Pressure | <u>81</u> P.S.I. | | | |
| H Final Hydrostatic Mud | <u>765</u> P.S.I. | | | |

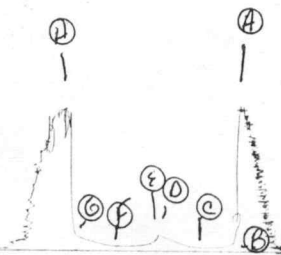
PRESSURE BREAKDOWN

| Point Mins. | First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|---------------|---|---------------|---|---------------|---|---------------|---|------|
| | Breakdown: | Inc. | Breakdown: | Inc. | Breakdown: | Inc. | Breakdown: | Inc. |
| | of <u>5</u> mins. and a final inc. of <u>0</u> Min. | | of <u>3</u> mins. and a final inc. of <u>0</u> Min. | | of <u>5</u> mins. and a final inc. of <u>0</u> Min. | | of <u>3</u> mins. and a 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>20</u> | <u>0</u> | <u>20</u> | <u>0</u> | <u>28</u> | <u>0</u> | <u>28</u> | |
| P 2 <u>5</u> | <u>20</u> | <u>3</u> | <u>21</u> | <u>5</u> | <u>28</u> | <u>3</u> | <u>29</u> | |
| P 3 <u>10</u> | <u>20</u> | <u>6</u> | <u>25</u> | <u>10</u> | <u>28</u> | <u>6</u> | <u>32</u> | |
| P 4 <u>15</u> | <u>20</u> | <u>9</u> | <u>32</u> | <u>15</u> | <u>28</u> | <u>9</u> | <u>37</u> | |
| P 5 <u>20</u> | <u>20</u> | <u>12</u> | <u>37</u> | <u>20</u> | <u>28</u> | <u>12</u> | <u>41</u> | |
| P 6 <u>25</u> | <u>20</u> | <u>15</u> | <u>46</u> | <u>25</u> | <u>28</u> | <u>15</u> | <u>47</u> | |
| P 7 <u>30</u> | <u>20</u> | <u>18</u> | <u>51</u> | <u>30</u> | <u>28</u> | <u>18</u> | <u>52</u> | |
| P 8 _____ | _____ | <u>21</u> | <u>59</u> | _____ | _____ | <u>21</u> | <u>59</u> | |
| P 9 _____ | _____ | <u>24</u> | <u>69</u> | _____ | _____ | <u>24</u> | <u>66</u> | |
| P10 _____ | _____ | <u>27</u> | <u>78</u> | _____ | _____ | <u>27</u> | <u>74</u> | |
| P11 _____ | _____ | <u>30</u> | <u>88</u> | _____ | _____ | <u>30</u> | <u>81</u> | |
| P12 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | |
| P13 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | |
| P14 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | |
| P15 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | |
| P16 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | |
| P17 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | |
| P18 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | |
| P19 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | |
| P20 _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | |

JK # 10044

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1044



Company Range Oil Company, Inc. Lease & Well No. Jacot #3
 Elevation 1108 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 10045
 Date 3/2/82 Sec. 11 Twp. 32S Range 10E County Chautauqua State Kansas
 Test Approved by Tim J. Lauer Western Representative Robert Davis

Formation Test No. 3 Interval Tested from 1653 ft. to 1675 ft. Total Depth 1675 ft.
 Packer Depth 1653 ft. Size 6 3/4 in. Packer Depth -- ft. Size - in.
 Packer Depth 1648 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 1658 ft. Recorder Number 1049 Cap. 4050
 Bottom Recorder Depth (Outside) 1662 ft. Recorder Number 13268 Cap. 4225
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Rig #2 Drill Collar Length 151 I. D. - in.
 Mud Type Chemical Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 11.2 cc. Drill Pipe Length 1482 I. D. - in.
 Chlorides 1200 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 22 ft. Size 5 1/2 in.
 Did Well Flow? Oil & Gas Reversed Out Yes 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 blow. Gas to surface 5 minutes into initial flow period. Oil to surface in 15 minutes final flow period. See attached sheet for gas measurements.

Recovered 1633 ft. of gas cut oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 4:40 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 6:55 ~~P.M.~~ ^{A.M.} Maximum Temperature 90
 Initial Hydrostatic Pressure (A) 788 P.S.I.
 Initial Flow Period Minutes 30 (B) 163 P.S.I. to (C) 317 P.S.I.
 Initial Closed In Period Minutes 27 (D) 591 P.S.I.
 Final Flow Period Minutes 25 (E) 388 P.S.I. to (F) 381 P.S.I.
 Final Closed In Period Minutes 45 (G) 595 P.S.I.
 Final Hydrostatic Pressure (H) 788 P.S.I.

GAS FLOW REPORT

Date 3/2/82 Ticket 10045 Company Range Oil Company, Inc.
 Well Name and No. Jacot #3 Dst No. 3 Interval Tested 1653-1675
 County Chautauqua State Kansas Sec. 11 Twp. 32S Rg. 10E

| 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 | | | | | | |
| | 5 Min | | | | | gas to surface |
| | 10 Min | 18" water | 1/4" Orifice | | | 7,120 C.F.P.D. |
| | 20 Min | 22" water | 1/4" Orifice | | | 7,880 C.F.P.D. |
| | 30 Min | 22" water | 1/4" Orifice | | | 7,880 C.F.P.D. |
| | | | | | | |

| SECOND FLOW | | | | | | |
|--------------------|--------|-----------|--------------|--|--|----------------|
| | 10 Min | 14" water | 1/4" Orifice | | | 6,330 C.F.P.D. |
| | 15 Min | | | | | Oil to surface |
| | | | | | | |
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GAS BOTTLE

Serial No. 80 Date Bottle Filled 3/2/82 Date to be Invoiced 3/2/82

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 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 Range Oil Company, Inc.
 Authorized by Tim J Lauer

WESTERN TESTING CO., INC.
Pressure Data

Date 3/2/82 Test Ticket No. 10045
 Recorder No. 1049 Capacity 4050 Location 1658 Ft.
 Clock No. - Elevation 1108 Kelly Bushing Well Temperature 90 °F

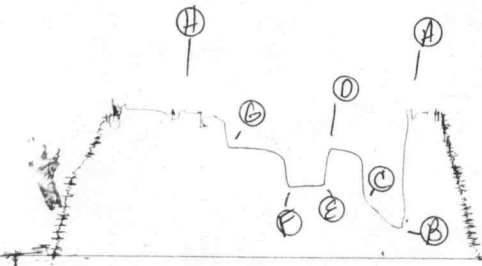
| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|-------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>788</u> P.S.I. | Open Tool | <u>4:40A</u> M | |
| B First Initial Flow Pressure | <u>163</u> P.S.I. | First Flow Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| C First Final Flow Pressure | <u>317</u> P.S.I. | Initial Closed-in Pressure | <u>30</u> Mins. | <u>27</u> Mins. |
| D Initial Closed-in Pressure | <u>591</u> P.S.I. | Second Flow Pressure | <u>30</u> Mins. | <u>25</u> Mins. |
| E Second Initial Flow Pressure | <u>388</u> P.S.I. | Final Closed-in Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| F Second Final Flow Pressure | <u>381</u> P.S.I. | | | |
| G Final Closed-in Pressure | <u>595</u> P.S.I. | | | |
| H Final Hydrostatic Mud | <u>788</u> P.S.I. | | | |

PRESSURE BREAKDOWN

| Point Mins. | First Flow Pressure | Initial Shut-In | Second Flow Pressure | Final Shut-In | | | |
|-------------|--|--|--|---|------------|---------------|------------|
| | Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min. | Breakdown: <u>9</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min. | Breakdown: <u>5</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min. | Breakdown: <u>15</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min. | | | |
| | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
| P 1 | <u>163</u> | <u>0</u> | <u>317</u> | <u>0</u> | <u>388</u> | <u>0</u> | <u>381</u> |
| P 2 | <u>163</u> | <u>3</u> | <u>536</u> | <u>5</u> | <u>388</u> | <u>3</u> | <u>492</u> |
| P 3 | <u>183</u> | <u>6</u> | <u>557</u> | <u>10</u> | <u>388</u> | <u>6</u> | <u>542</u> |
| P 4 | <u>217</u> | <u>9</u> | <u>570</u> | <u>15</u> | <u>388</u> | <u>9</u> | <u>559</u> |
| P 5 | <u>258</u> | <u>12</u> | <u>577</u> | <u>20</u> | <u>383</u> | <u>12</u> | <u>570</u> |
| P 6 | <u>292</u> | <u>15</u> | <u>582</u> | <u>25</u> | <u>381</u> | <u>15</u> | <u>576</u> |
| P 7 | <u>317</u> | <u>18</u> | <u>585</u> | | | <u>18</u> | <u>579</u> |
| P 8 | | <u>21</u> | <u>587</u> | | | <u>21</u> | <u>582</u> |
| P 9 | | <u>24</u> | <u>589</u> | | | <u>24</u> | <u>585</u> |
| P10 | | <u>27</u> | <u>591</u> | | | <u>27</u> | <u>588</u> |
| P11 | | | | | | <u>30</u> | <u>591</u> |
| P12 | | | | | | <u>33</u> | <u>592</u> |
| P13 | | | | | | <u>36</u> | <u>593</u> |
| P14 | | | | | | <u>39</u> | <u>594</u> |
| P15 | | | | | | <u>42</u> | <u>595</u> |
| P16 | | | | | | <u>45</u> | <u>595</u> |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |

Stk # 10045

I



Company Range Oil Company, Inc. Lease & Well No. Jacot #3
 Elevation 1108 Kelly Bushing Mississippi Formation Mississippi Effective Pay - Ft. Ticket No. 10046
 Date 3/3/82 Sec. 11 Twp. 32S Range 10E County Chautauqua State Kansas
 Test Approved by Tim J. Lauer Western Representative Robert Davis

Formation Test No. 4 Interval Tested from 1976 ft. to 2000 ft. Total Depth 2000 ft.
 Packer Depth 1976 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 1971 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 1981 ft. Recorder Number 1049 Cap. 4050
 Bottom Recorder Depth (Outside) 1985 ft. Recorder Number 13268 Cap. 4225
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Rig #2 Drill Collar Length 151 I. D. - in.
 Mud Type Chemical Viscosity 50 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 10.4 cc. Drill Pipe Length 1805 I. D. - in.
 Chlorides 1200 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 24 ft. Size 5 1/2 in.
 Did Well Flow? Gas Reversed Out - 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 - gas to surface in 5 minutes into initial flow period. See attached sheet for gas measurements.

Recovered 65 ft. of oil spotted mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 4:55 A.M. P.M. Time Started Off Bottom 7:55 A.M. P.M. Maximum Temperature 94
 Initial Hydrostatic Pressure (A) 1006 P.S.I.
 Initial Flow Period Minutes 30 (B) 51 P.S.I. to (C) 51 P.S.I.
 Initial Closed In Period Minutes 27 (D) 452 P.S.I.
 Final Flow Period Minutes 55 (E) 51 P.S.I. to (F) 58 P.S.I.
 Final Closed In Period Minutes 57 (G) 452 P.S.I.
 Final Hydrostatic Pressure (H) 1006 P.S.I.

GAS FLOW REPORT

Date 3/3/82 Ticket 10046 Company Range Oil Company, Inc.
 Well Name and No. Jacot #3 Dst No. 4 Interval Tested 1976 - 2000
 County Chautauqua State Kansas Sec. 11 Twp. 32S Rg. 10E

| 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 | | | | | | |
| | 5 Min | | | | | gas to surface |
| | 10 Min | 10 PSIG | ½" Orifice | | | 116,000 C.F.P.D. |
| | 20 Min | 18 PSIG | ½" Orifice | | | 166,000 C.F.P.D. |
| | 30 Min | 20 PSIG | ½" Orifice | | | 177,000 C.F.P.D. |

| SECOND FLOW | | | | | | |
|--------------------|--------|---------|------------|--|--|------------------|
| | 10 Min | 18 PSIG | ½" Orifice | | | 166,000 C.F.P.D. |
| | 20 Min | 20 PSIG | ½" Orifice | | | 177,000 C.F.P.D. |
| | 30 Min | 20 PSIG | ½" Orifice | | | 177,000 C.F.P.D. |
| | 40 Min | 20 PSIG | ½" Orifice | | | 177,000 C.F.P.D. |
| | 50 Min | 20 PSIG | ½" Orifice | | | 177,000 C.F.P.D. |
| | 60 Min | 20 PSIG | ½" Orifice | | | 177,000 C.F.P.D. |

GAS BOTTLE

Serial No. 46B Date Bottle Filled 3/3/82 Date to be Invoiced 3/3/82

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 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 Range Oil Company, Inc.
 Authorized by Tim J. Lauer

WESTERN TESTING CO., INC.

Pressure Data

Date 3/3/82 Test Ticket No. 10046
 Recorder No. 1049 Capacity 4050 Location 1981 Ft.
 Clock No. -- Elevation 1108 Kelly Bushing Well Temperature 94 °F

| Point | Pressure | | Time | |
|--------------------------------|----------|--------|-------|----------------|
| | | | Given | Computed |
| A Initial Hydrostatic Mud | 1006 | P.S.I. | 4:55A | M |
| B First Initial Flow Pressure | 51 | P.S.I. | 30 | Mins. 30 Mins. |
| C First Final Flow Pressure | 51 | P.S.I. | 30 | Mins. 27 Mins. |
| D Initial Closed-in Pressure | 452 | P.S.I. | 60 | Mins. 55 Mins. |
| E Second Initial Flow Pressure | 51 | P.S.I. | 60 | Mins. 57 Mins. |
| F Second Final Flow Pressure | 58 | P.S.I. | | |
| G Final Closed-in Pressure | 452 | P.S.I. | | |
| H Final Hydrostatic Mud | 1006 | 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: 9 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 19 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

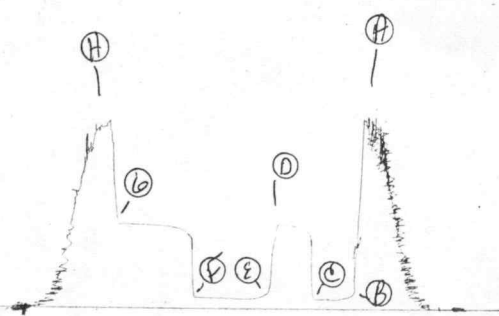
| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|---------------|-----------|---------------|------------|---------------|-----------|---------------|------------|
| P 1 <u>0</u> | <u>51</u> | <u>0</u> | <u>51</u> | <u>0</u> | <u>51</u> | <u>0</u> | <u>58</u> |
| P 2 <u>5</u> | <u>51</u> | <u>3</u> | <u>398</u> | <u>5</u> | <u>51</u> | <u>3</u> | <u>386</u> |
| P 3 <u>10</u> | <u>51</u> | <u>6</u> | <u>419</u> | <u>10</u> | <u>51</u> | <u>6</u> | <u>407</u> |
| P 4 <u>15</u> | <u>51</u> | <u>9</u> | <u>430</u> | <u>15</u> | <u>51</u> | <u>9</u> | <u>422</u> |
| P 5 <u>20</u> | <u>51</u> | <u>12</u> | <u>438</u> | <u>20</u> | <u>51</u> | <u>12</u> | <u>430</u> |
| P 6 <u>25</u> | <u>51</u> | <u>15</u> | <u>442</u> | <u>25</u> | <u>52</u> | <u>15</u> | <u>434</u> |
| P 7 <u>30</u> | <u>51</u> | <u>18</u> | <u>446</u> | <u>30</u> | <u>53</u> | <u>18</u> | <u>438</u> |
| P 8 _____ | _____ | <u>21</u> | <u>448</u> | <u>35</u> | <u>54</u> | <u>21</u> | <u>440</u> |
| P 9 _____ | _____ | <u>24</u> | <u>450</u> | <u>40</u> | <u>56</u> | <u>24</u> | <u>442</u> |
| P10 _____ | _____ | <u>27</u> | <u>452</u> | <u>45</u> | <u>57</u> | <u>27</u> | <u>444</u> |
| P11 _____ | _____ | _____ | _____ | <u>50</u> | <u>58</u> | <u>30</u> | <u>446</u> |
| P12 _____ | _____ | _____ | _____ | <u>55</u> | <u>58</u> | <u>33</u> | <u>447</u> |
| P13 _____ | _____ | _____ | _____ | _____ | _____ | <u>36</u> | <u>448</u> |
| P14 _____ | _____ | _____ | _____ | _____ | _____ | <u>39</u> | <u>449</u> |
| P15 _____ | _____ | _____ | _____ | _____ | _____ | <u>42</u> | <u>450</u> |
| P16 _____ | _____ | _____ | _____ | _____ | _____ | <u>45</u> | <u>451</u> |
| P17 _____ | _____ | _____ | _____ | _____ | _____ | <u>48</u> | <u>452</u> |
| P18 _____ | _____ | _____ | _____ | _____ | _____ | <u>51</u> | <u>452</u> |
| P19 _____ | _____ | _____ | _____ | _____ | _____ | <u>54</u> | <u>452</u> |
| P20 _____ | _____ | _____ | _____ | _____ | _____ | <u>57</u> | <u>452</u> |

HA # 10046

I

#10046

1049



Company Range Oil Company, Inc. Lease & Well No. Jacot #3
 Elevation 1108 Kelly Bushing Mississippi Formation Effective Pay - Ft. Ticket No. 10047
 Date 3/3/82 Sec. 11 Twp. 32S Range 10E County Chautauqua State Kansas
 Test Approved by Tim J. Lauer Western Representative Robert Davis

Formation Test No. 5 Interval Tested from 2000 ft. to 2030 ft. Total Depth 2030 ft.
 Packer Depth 2000 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 1995 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2005 ft. Recorder Number 1049 Cap. 4050
 Bottom Recorder Depth (Outside) 2009 ft. Recorder Number 13268 Cap. 4225
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Rig #2 Drill Collar Length 151 I. D. - in.
 Mud Type Chemical Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.6 Water Loss 10.4 cc. Drill Pipe Length 1829 I. D. - in.
 Chlorides 1000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 30 ft. Size 5 1/2 in.
 Did Well Flow? Gas 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 - gas to surface in 15 minutes on initial flow period. See attached sheet for gas measurements.

Recovered 15 ft. of oil spotted mud
 Recovered 120 ft. of oil & gas cut muddy water - 15% oil; 5% water
 Recovered 60 ft. of oil & gas cut muddy water - 10% oil; 5% water
 Recovered 60 ft. of oil spotted muddy water Chlorides 64,000 PPM
 Recovered ft. of

Remarks:

Time Set Packer(s) 3:50 A.M. Time Started Off Bottom 6:35 A.M. Maximum Temperature 94
 Initial Hydrostatic Pressure 1021 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 55 P.S.I. to (C) 55 P.S.I.
 Initial Closed In Period 33 Minutes (D) 457 P.S.I.
 Final Flow Period 60 Minutes (E) 85 P.S.I. to (F) 106 P.S.I.
 Final Closed In Period 45 Minutes (G) 467 P.S.I.
 Final Hydrostatic Pressure 1006 P.S.I. (H)

GAS FLOW REPORT

Date 3/3/82 Ticket 10047 Company Range Oil Company, Inc.
 Well Name and No. Jacot #3 Dst No. 5 Interval Tested 2000 - 2030
 County Chautauqua State Kansas Sec. 11 Twp. 32S Rg. 10E

| 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 | | | | | | |
| | 15 Min | | | | | gas to surface |
| | 20 Min | 10" water | ¼" Orifice | | | 5,320 C.F.P.D. |
| | 30 Min | 10" water | ¼" Orifice | | | 5,320 C.F.P.D. |
| | | | | | | |
| | | | | | | |

| SECOND FLOW | | | | | | |
|--------------------|--------|-----------|------------|--|--|----------------|
| | 10 Min | 10" water | ¼" Orifice | | | 5,320 C.F.P.D. |
| | 20 Min | 10" water | ¼" Orifice | | | 5,320 C.F.P.D. |
| | 30 Min | 8" water | ¼" Orifice | | | 4,760 C.F.P.D. |
| | 40 Min | 5" water | ¼" Orifice | | | 3,950 C.F.P.D. |
| | 50 Min | 5" water | ¼" Orifice | | | 3,950 C.F.P.D. |
| | 60 Min | 5" water | ¼" Orifice | | | 3,950 C.F.P.D. |
| | | | | | | |
| | | | | | | |
| | | | | | | |

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 3/3/82

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 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 Range Oil Company, Inc.
 Authorized by Tim J. Lauer

WESTERN TESTING CO., INC.
Pressure Data

Date 3/3/82

Test Ticket No. 10047

Recorder No. 1049

Capacity 4050 Location 2005 Ft.

Clock No. -

Elevation 1108 Kelly Bushing Well Temperature 94 °F

| Point | Pressure | | Open Tool | Time Given | Time Computed |
|--------------------------------|-------------|--------|----------------------------|------------|---------------|
| | | | | 3:30P | M |
| A Initial Hydrostatic Mud | <u>1021</u> | P.S.I. | | <u>30</u> | <u>30</u> |
| B First Initial Flow Pressure | <u>55</u> | P.S.I. | First Flow Pressure | <u>30</u> | <u>33</u> |
| C First Final Flow Pressure | <u>55</u> | P.S.I. | Initial Closed-in Pressure | <u>60</u> | <u>60</u> |
| D Initial Closed-in Pressure | <u>457</u> | P.S.I. | Second Flow Pressure | <u>45</u> | <u>45</u> |
| E Second Initial Flow Pressure | <u>85</u> | P.S.I. | Final Closed-in Pressure | | |
| F Second Final Flow Pressure | <u>106</u> | P.S.I. | | | |
| G Final Closed-in Pressure | <u>467</u> | P.S.I. | | | |
| H Final Hydrostatic Mud | <u>1006</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.

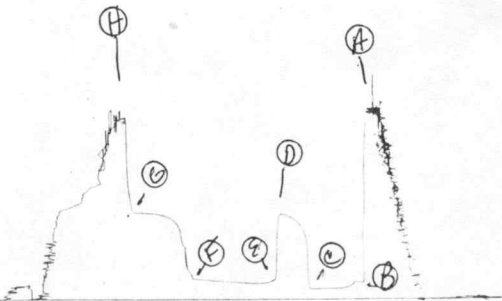
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 15 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>55</u> | <u>0</u> | <u>55</u> | <u>0</u> | <u>85</u> | <u>0</u> | <u>106</u> |
| P 2 <u>5</u> | <u>55</u> | <u>3</u> | <u>55</u> | <u>5</u> | <u>85</u> | <u>3</u> | <u>148</u> |
| P 3 <u>10</u> | <u>55</u> | <u>6</u> | <u>54</u> | <u>10</u> | <u>85</u> | <u>6</u> | <u>275</u> |
| P 4 <u>15</u> | <u>55</u> | <u>9</u> | <u>53</u> | <u>15</u> | <u>85</u> | <u>9</u> | <u>354</u> |
| P 5 <u>20</u> | <u>55</u> | <u>12</u> | <u>295</u> | <u>20</u> | <u>87</u> | <u>12</u> | <u>407</u> |
| P 6 <u>25</u> | <u>55</u> | <u>15</u> | <u>367</u> | <u>25</u> | <u>89</u> | <u>15</u> | <u>426</u> |
| P 7 <u>30</u> | <u>55</u> | <u>18</u> | <u>400</u> | <u>30</u> | <u>91</u> | <u>18</u> | <u>440</u> |
| P 8 | | <u>21</u> | <u>424</u> | <u>35</u> | <u>93</u> | <u>21</u> | <u>449</u> |
| P 9 | | <u>24</u> | <u>439</u> | <u>40</u> | <u>95</u> | <u>24</u> | <u>456</u> |
| P10 | | <u>27</u> | <u>449</u> | <u>45</u> | <u>97</u> | <u>27</u> | <u>460</u> |
| P11 | | <u>30</u> | <u>456</u> | <u>50</u> | <u>100</u> | <u>30</u> | <u>462</u> |
| P12 | | <u>33</u> | <u>457</u> | <u>55</u> | <u>103</u> | <u>33</u> | <u>463</u> |
| P13 | | | | <u>60</u> | <u>106</u> | <u>36</u> | <u>464</u> |
| P14 | | | | | | <u>39</u> | <u>465</u> |
| P15 | | | | | | <u>42</u> | <u>466</u> |
| P16 | | | | | | <u>45</u> | <u>467</u> |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |

NK # 10047

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1004721

1049

Company Range Oil Company, Inc. Lease & Well No. Jacot #3
 Elevation 1108 Kelly Bushing Formation Arbuckle Effective Pay - Ft. Ticket No. 10048
 Date 3/4/82 Sec. 11 Twp. 32S Range 10E County Chautauqua State Kansas
 Test Approved by Tim J. Lauer Western Representative Robert Davis

Formation Test No. 6 Interval Tested from 2306 ft. to 2313 ft. Total Depth 2313 ft.

Packer Depth 2306 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2301 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2296 ft. Recorder Number 13268 Cap. 4225

Bottom Recorder Depth (Outside) 2313 ft. Recorder Number 1049 Cap. 4250

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

Drilling Contractor Range Rig #2 Drill Collar Length 151 I. D. - in.

Mud Type Chemical Viscosity 56 Weight Pipe Length - I. D. - in.

Weight 7.9 Water Loss 9.6 cc. Drill Pipe Length 2124 I. D. - in.

Chlorides 1200 P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number - Anchor Length 7 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out Yes 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 throughout test.

Recovered 1050 ft. of free oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:20 A.M. Time Started Off Bottom 6:50 P.M. Maximum Temperature 99

Initial Hydrostatic Pressure (A) 1168 P.S.I.

Initial Flow Period Minutes 30 (B) 45 P.S.I. to (C) 181 P.S.I.

Initial Closed In Period Minutes 30 (D) 827 P.S.I.

Final Flow Period Minutes 60 (E) 267 P.S.I. to (F) 392 P.S.I.

Final Closed In Period Minutes 90 (G) 835 P.S.I.

Final Hydrostatic Pressure (H) 1168 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 3/4/82 Test Ticket No. 10048
 Recorder No. 13268 Capacity 4225 Location 2296 Ft.
 Clock No. - Elevation 1108 Kelly Bushing Well Temperature 99 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>1168</u> P.S.I. | Open Tool | <u>3:20P</u> M | |
| B First Initial Flow Pressure | <u>45</u> P.S.I. | First Flow Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| C First Final Flow Pressure | <u>181</u> P.S.I. | Initial Closed-in Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| D Initial Closed-in Pressure | <u>827</u> P.S.I. | Second Flow Pressure | <u>60</u> Mins. | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>267</u> P.S.I. | Final Closed-in Pressure | <u>90</u> Mins. | <u>90</u> Mins. |
| F Second Final Flow Pressure | <u>392</u> P.S.I. | | | |
| G Final Closed-in Pressure | <u>835</u> P.S.I. | | | |
| H Final Hydrostatic Mud | <u>1168</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 final inc. of <u>0</u> Min. | | of <u>10</u> mins. and a final inc. of <u>0</u> Min. | | of <u>12</u> mins. and a final inc. of <u>0</u> Min. | | of <u>30</u> mins. and a 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>45</u> | <u>0</u> | <u>181</u> | <u>0</u> | <u>267</u> | <u>0</u> | <u>392</u> | |
| P 2 <u>5</u> | <u>64</u> | <u>3</u> | <u>657</u> | <u>5</u> | <u>267</u> | <u>3</u> | <u>692</u> | |
| P 3 <u>10</u> | <u>90</u> | <u>6</u> | <u>732</u> | <u>10</u> | <u>267</u> | <u>6</u> | <u>747</u> | |
| P 4 <u>15</u> | <u>115</u> | <u>9</u> | <u>762</u> | <u>15</u> | <u>270</u> | <u>9</u> | <u>771</u> | |
| P 5 <u>20</u> | <u>141</u> | <u>12</u> | <u>782</u> | <u>20</u> | <u>278</u> | <u>12</u> | <u>790</u> | |
| P 6 <u>25</u> | <u>162</u> | <u>15</u> | <u>797</u> | <u>25</u> | <u>291</u> | <u>15</u> | <u>800</u> | |
| P 7 <u>30</u> | <u>181</u> | <u>18</u> | <u>807</u> | <u>30</u> | <u>305</u> | <u>18</u> | <u>808</u> | |
| P 8 _____ | | <u>21</u> | <u>816</u> | <u>35</u> | <u>321</u> | <u>21</u> | <u>813</u> | |
| P 9 _____ | | <u>24</u> | <u>821</u> | <u>40</u> | <u>335</u> | <u>24</u> | <u>819</u> | |
| P10 _____ | | <u>27</u> | <u>825</u> | <u>45</u> | <u>350</u> | <u>27</u> | <u>821</u> | |
| P11 _____ | | <u>30</u> | <u>827</u> | <u>50</u> | <u>365</u> | <u>30</u> | <u>824</u> | |
| P12 _____ | | | | <u>55</u> | <u>378</u> | <u>33</u> | <u>826</u> | |
| P13 _____ | | | | <u>60</u> | <u>392</u> | <u>36</u> | <u>828</u> | |
| P14 _____ | | | | | | <u>39</u> | <u>829</u> | |
| P15 _____ | | | | | | <u>42</u> | <u>830</u> | |
| P16 _____ | | | | | | <u>45</u> | <u>831</u> | |
| P17 _____ | | | | | | <u>48</u> | <u>832</u> | |
| P18 _____ | | | | | | <u>51</u> | <u>833</u> | |
| P19 _____ | | | | | | <u>54</u> | <u>834</u> | |
| P20 _____ | | | | | | <u>57</u> | <u>835</u> | |
| | | | | | | <u>60</u> | <u>835</u> | |

WESTERN TESTING CO., INC.
Pressure Data

Date 3/4/82 Test Ticket No. 10048
 Recorder No. 13268 Capacity 4225 Location 2296 Ft.
 Clock No. - Elevation 1108 Kelly Bushing Well Temperature 99 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|-------------|--------|--------------|-----------------|
| A. Initial Hydrostatic Mud | <u>1168</u> | P.S.I. | <u>3:20P</u> | <u>M</u> |
| B First Initial Flow Pressure | <u>45</u> | P.S.I. | <u>30</u> | <u>30</u> Mins. |
| C First Final Flow Pressure | <u>181</u> | P.S.I. | <u>30</u> | <u>30</u> Mins. |
| D Initial Closed-in Pressure | <u>827</u> | P.S.I. | <u>60</u> | <u>60</u> Mins. |
| E Second Initial Flow Pressure | <u>267</u> | P.S.I. | <u>90</u> | <u>90</u> Mins. |
| F Second Final Flow Pressure | <u>392</u> | P.S.I. | | |
| G Final Closed-in Pressure | <u>835</u> | P.S.I. | | |
| H Final Hydrostatic Mud | <u>1168</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: 10 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. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. |
|-------------|--------|---------------|--------|---------------|--------|---------------|--------|
| P 1 | | | | | | 63 | 835 |
| P 2 | | | | | | 66 | 835 |
| P 3 | | | | | | 69 | 835 |
| P 4 | | | | | | 72 | 835 |
| P 5 | | | | | | 75 | 835 |
| P 6 | | | | | | 78 | 835 |
| P 7 | | | | | | 81 | 835 |
| P 8 | | | | | | 84 | 835 |
| P 9 | | | | | | 87 | 835 |
| P10 | | | | | | 90 | 835 |
| P11 | | | | | | | |
| P12 | | | | | | | |
| P13 | | | | | | | |
| P14 | | | | | | | |
| P15 | | | | | | | |
| P16 | | | | | | | |
| P17 | | | | | | | |
| P18 | | | | | | | |
| P19 | | | | | | | |
| P20 | | | | | | | |

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