

Company Brougner Oil, Inc. Lease & Well No. #4 Neeland "B"
Elevation - Formation Lansing Effective Pay - Ft. Ticket No. 14614
Date 11/17/81 Sec. 36 Twp. 19S Range 11W County Barton State Kansas
Test Approved by Greg Maier Western Representative Denis Wondra
Formation Test No. 1 Interval Tested from 3088 ft. to 3105 ft. Total Depth 3105 ft.
Packer Depth 3083 ft. Size 6 5/8 in. Packer Depth 3088 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3095 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 3098 ft. Recorder Number 1049 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Woodman-Iannitti Rig #2 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 43 Weight Pipe Length 600 I. D. 2.7 in.
Weight 9.5 Water Loss 6.2 cc. Drill Pipe Length 2466 I. D. 3.8 in.
Chlorides 75,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - 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 XH in.

Blow: Good blow throughout test.

Recovered 60 ft. of gas in pipe
Recovered 180 ft. of slightly oil & gas cut muddy water

Recovered - ft. of Chlorides 85,000 PPM

Recovered - ft. of

Recovered - ft. of

Remarks:

Time Set Packer(s) 7:13 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 10:15 ~~P.M.~~ ^{A.M.} Maximum Temperature 101
Initial Hydrostatic Pressure 1631 (A) P.S.I.
Initial Flow Period 45 Minutes (B) 49 P.S.I. to (C) 70 P.S.I.
Initial Closed In Period 45 Minutes (D) 689 P.S.I.
Final Flow Period 45 Minutes (E) 89 P.S.I. to (F) 101 P.S.I.
Final Closed In Period 42 Minutes (G) 598 P.S.I.
Final Hydrostatic Pressure 1623 (H) P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/17/81 Test Ticket No. 14614
 Recorder No. 3474 Capacity 3000 Location 101 Ft.
 Clock No. - Elevation - Well Temperature 101 °F

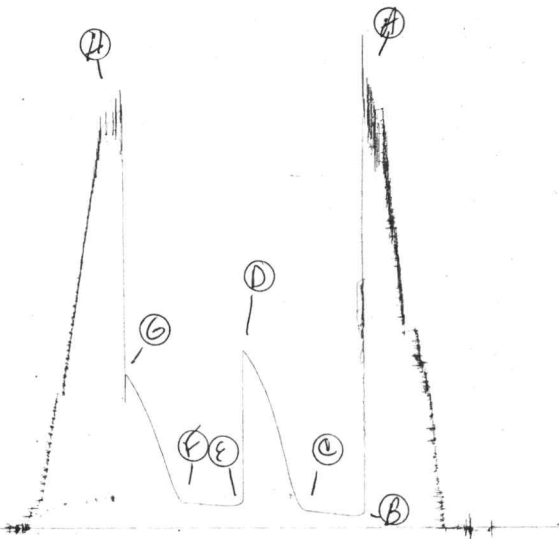
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1631</u>	P.S.I.	<u>7:13A</u>	<u>M</u>
B First Initial Flow Pressure	<u>49</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
C First Final Flow Pressure	<u>70</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>689</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>89</u>	P.S.I.	<u>45</u>	<u>42</u> Mins.
F Second Final Flow Pressure	<u>101</u>	P.S.I.		
G Final Closed-in Pressure	<u>598</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1623</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>14</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>49</u>	<u>0</u>	<u>70</u>	<u>0</u>	<u>89</u>	<u>0</u>	<u>101</u>
P 2 <u>5</u>	<u>49</u>	<u>3</u>	<u>83</u>	<u>5</u>	<u>89</u>	<u>3</u>	<u>115</u>
P 3 <u>10</u>	<u>49</u>	<u>6</u>	<u>111</u>	<u>10</u>	<u>89</u>	<u>6</u>	<u>145</u>
P 4 <u>15</u>	<u>52</u>	<u>9</u>	<u>159</u>	<u>15</u>	<u>90</u>	<u>9</u>	<u>188</u>
P 5 <u>20</u>	<u>55</u>	<u>12</u>	<u>220</u>	<u>20</u>	<u>91</u>	<u>12</u>	<u>238</u>
P 6 <u>25</u>	<u>58</u>	<u>15</u>	<u>289</u>	<u>25</u>	<u>94</u>	<u>15</u>	<u>288</u>
P 7 <u>30</u>	<u>61</u>	<u>18</u>	<u>356</u>	<u>30</u>	<u>96</u>	<u>18</u>	<u>332</u>
P 8 <u>35</u>	<u>64</u>	<u>21</u>	<u>414</u>	<u>35</u>	<u>97</u>	<u>21</u>	<u>380</u>
P 9 <u>40</u>	<u>67</u>	<u>24</u>	<u>471</u>	<u>40</u>	<u>99</u>	<u>24</u>	<u>423</u>
P10 <u>45</u>	<u>70</u>	<u>27</u>	<u>518</u>	<u>45</u>	<u>101</u>	<u>27</u>	<u>459</u>
P11		<u>30</u>	<u>553</u>			<u>30</u>	<u>494</u>
P12		<u>33</u>	<u>589</u>			<u>33</u>	<u>527</u>
P13		<u>36</u>	<u>620</u>			<u>36</u>	<u>556</u>
P14		<u>39</u>	<u>647</u>			<u>39</u>	<u>583</u>
P15		<u>42</u>	<u>673</u>			<u>42</u>	<u>598</u>
P16		<u>45</u>	<u>689</u>				
P17							
P18							
P19							
P20							

TKT # 14614
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Company Brougner Oil, Inc. Lease & Well No. #4 Neeland "B"
Elevation - Formation Lansing Effective Pay - Ft. Ticket No. 14615
Date 11/18/81 Sec. 36 Twp. 19S Range 11W County Barton State Kansas
Test Approved by Greg Maier Western Representative Denis Wondra
Formation Test No. 2 Interval Tested from 3182 ft. to 3195 ft. Total Depth 3195 ft.
Packer Depth 3177 ft. Size 6 5/8 in. Packer Depth 3182 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3185 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 3188 ft. Recorder Number 1049 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Woodman-Iannitti Rig #2 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 41 Weight Pipe Length 360 I. D. 2.8 in.
Weight 9.7 Water Loss 20.0 cc. Drill Pipe Length 2800 I. D. 3.8 in.
Chlorides 70,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 13 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: Very weak blow throughout test.

Recovered 10 ft. of very slightly oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:13 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 4:00 ~~P.M.~~ ^{A.M.} Maximum Temperature 103
Initial Hydrostatic Pressure (A) 1699 P.S.I.
Initial Flow Period Minutes 30 (B) 23 P.S.I. to (C) 23 P.S.I.
Initial Closed In Period Minutes 57 (D) 115 P.S.I.
Final Flow Period Minutes 30 (E) 29 P.S.I. to (F) 29 P.S.I.
Final Closed In Period Minutes 45 (G) 55 P.S.I.
Final Hydrostatic Pressure (H) 1677 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/18/81 Recorder No. 3474 Capacity 3000 Test Ticket No. 14615 Location 3185 Ft.
 Clock No. - Elevation - Well Temperature 103 °F

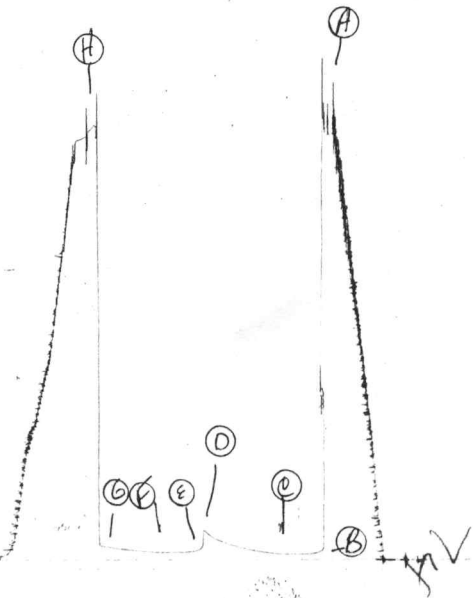
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1699</u>	P.S.I.	<u>1:13A</u>	<u>M</u>
B First Initial Flow Pressure	<u>23</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>23</u>	P.S.I.	<u>60</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>115</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>29</u>	P.S.I.	<u>45</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>29</u>	P.S.I.		
G Final Closed-in Pressure	<u>55</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1677</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>19</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</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>23</u>	<u>0</u>	<u>23</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>29</u>
P 2 <u>5</u>	<u>23</u>	<u>3</u>	<u>23</u>	<u>5</u>	<u>29</u>	<u>3</u>	<u>29</u>
P 3 <u>10</u>	<u>23</u>	<u>6</u>	<u>25</u>	<u>10</u>	<u>29</u>	<u>6</u>	<u>30</u>
P 4 <u>15</u>	<u>23</u>	<u>9</u>	<u>27</u>	<u>15</u>	<u>29</u>	<u>9</u>	<u>31</u>
P 5 <u>20</u>	<u>23</u>	<u>12</u>	<u>29</u>	<u>20</u>	<u>29</u>	<u>12</u>	<u>33</u>
P 6 <u>25</u>	<u>23</u>	<u>15</u>	<u>30</u>	<u>25</u>	<u>29</u>	<u>15</u>	<u>35</u>
P 7 <u>30</u>	<u>23</u>	<u>18</u>	<u>33</u>	<u>30</u>	<u>29</u>	<u>18</u>	<u>36</u>
P 8		<u>21</u>	<u>36</u>			<u>21</u>	<u>38</u>
P 9		<u>24</u>	<u>38</u>			<u>24</u>	<u>39</u>
P10		<u>27</u>	<u>43</u>			<u>27</u>	<u>41</u>
P11		<u>30</u>	<u>47</u>			<u>30</u>	<u>44</u>
P12		<u>33</u>	<u>51</u>			<u>33</u>	<u>45</u>
P13		<u>36</u>	<u>56</u>			<u>36</u>	<u>48</u>
P14		<u>39</u>	<u>61</u>			<u>39</u>	<u>51</u>
P15		<u>42</u>	<u>67</u>			<u>42</u>	<u>53</u>
P16		<u>45</u>	<u>73</u>			<u>45</u>	<u>55</u>
P17		<u>48</u>	<u>80</u>				
P18		<u>51</u>	<u>88</u>				
P19		<u>54</u>	<u>101</u>				
P20		<u>57</u>	<u>115</u>				

Rt # 14615

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Company Brougner Oil, Inc. Lease & Well No. #4 Neeland "B"
Elevation - Formation Arbuckle Effective Pay - Ft. Ticket No. 14616
Date 11/18/81 Sec. 36 Twp. 19S Range 11W County Barton State Kansas
Test Approved by Greg Maier Western Representative Denis Wondra
Formation Test No. 3 Interval Tested from 3274 ft. to 3282 ft. Total Depth 3282 ft.
Packer Depth 3270 ft. Size 6 5/8 in. Packer Depth 3275 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3265 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 3277 ft. Recorder Number 1049 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Woodman-Tannitti Rig #2 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 50 Weight Pipe Length 360 I. D. 2.8 in.
Weight 9.9 Water Loss 12.8 cc. Drill Pipe Length 2888 I. D. 3.8 in.
Chlorides 70,000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 7 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: Very weak blow throughout test.

Recovered 65 ft. of very slightly oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:28 A.M. Time Started Off Bottom 11:30 A.M. Maximum Temperature 106
P.M. P.M.
Initial Hydrostatic Pressure (A) 1753 P.S.I.
Initial Flow Period Minutes 45 (B) 17 P.S.I. to (C) 24 P.S.I.
Initial Closed In Period Minutes 45 (D) 576 P.S.I.
Final Flow Period Minutes 45 (E) 35 P.S.I. to (F) 40 P.S.I.
Final Closed In Period Minutes 42 (G) 580 P.S.I.
Final Hydrostatic Pressure (H) 1737 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/18/81

Test Ticket No. 14616

Recorder No. 3474

Capacity 3000

Location 3265 Ft.

Clock No. -

Elevation -

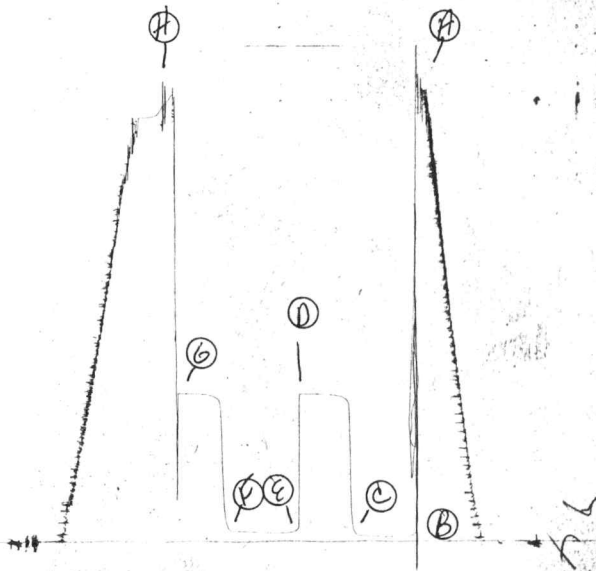
Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1753</u>	P.S.I.	8:28P	M
B First Initial Flow Pressure	<u>17</u>	P.S.I.	45	Mins. 45 Mins.
C First Final Flow Pressure	<u>24</u>	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	<u>576</u>	P.S.I.	45	Mins. 45 Mins.
E Second Initial Flow Pressure	<u>35</u>	P.S.I.	45	Mins. 42 Mins.
F Second Final Flow Pressure	<u>40</u>	P.S.I.		
G Final Closed-in Pressure	<u>580</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1737</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>14</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>17</u>	<u>0</u>	<u>24</u>	<u>0</u>	<u>35</u>	<u>0</u>	<u>40</u>
P 2 <u>5</u>	<u>17</u>	<u>3</u>	<u>56</u>	<u>5</u>	<u>35</u>	<u>3</u>	<u>40</u>
P 3 <u>10</u>	<u>17</u>	<u>6</u>	<u>471</u>	<u>10</u>	<u>35</u>	<u>6</u>	<u>58</u>
P 4 <u>15</u>	<u>17</u>	<u>9</u>	<u>555</u>	<u>15</u>	<u>35</u>	<u>9</u>	<u>165</u>
P 5 <u>20</u>	<u>18</u>	<u>12</u>	<u>565</u>	<u>20</u>	<u>35</u>	<u>12</u>	<u>533</u>
P 6 <u>25</u>	<u>19</u>	<u>15</u>	<u>569</u>	<u>25</u>	<u>36</u>	<u>15</u>	<u>562</u>
P 7 <u>30</u>	<u>21</u>	<u>18</u>	<u>571</u>	<u>30</u>	<u>37</u>	<u>18</u>	<u>570</u>
P 8 <u>35</u>	<u>22</u>	<u>21</u>	<u>573</u>	<u>35</u>	<u>38</u>	<u>21</u>	<u>574</u>
P 9 <u>40</u>	<u>23</u>	<u>24</u>	<u>574</u>	<u>40</u>	<u>39</u>	<u>24</u>	<u>576</u>
P10 <u>45</u>	<u>24</u>	<u>27</u>	<u>575</u>	<u>45</u>	<u>40</u>	<u>27</u>	<u>577</u>
P11		<u>30</u>	<u>576</u>			<u>30</u>	<u>578</u>
P12		<u>33</u>	<u>576</u>			<u>33</u>	<u>579</u>
P13		<u>36</u>	<u>576</u>			<u>36</u>	<u>580</u>
P14		<u>39</u>	<u>576</u>			<u>39</u>	<u>580</u>
P15		<u>42</u>	<u>576</u>			<u>42</u>	<u>580</u>
P16		<u>45</u>	<u>576</u>				
P17							
P18							
P19							
P20							

PKT # 14616
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Company Brougner Oil, Inc. Lease & Well No. #4 Neeland "B"
Elevation - Formation Arbuckle Effective Pay - Ft. Ticket No. 14617
Date 11/19/81 Sec. 36 Twp. 19S Range 11W County Barton State Kansas
Test Approved by Greg Maier Western Representative Denis Wondra
Formation Test No. 4 Interval Tested from 3282 ft. to 3287 ft. Total Depth 3287 ft.
Packer Depth 3277 ft. Size 6 5/8 in. Packer Depth 3282 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3267 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 3270 ft. Recorder Number 1049 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Woodman-Tannitti Rig #2 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 54 Weight Pipe Length 360 I. D. 2.8 in.
Weight 9.9 Water Loss 14.6 cc. Drill Pipe Length 2893 I. D. 3.8 in.
Chlorides 66,000 P.P.M. Test Tool Length 2903 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 5 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: Very weak throughout initial flow period. Good throughout final flow period.

Recovered 120 ft. of watery mud

Recovered 120 ft. of muddy water

Recovered 180 ft. of salt water

Chlorides 25,000 PPM

Recovered ft. of

Recovered ft. of

Remarks: Slid tool 5 ft. to bottom. Slight plugging action on both flow periods.

Time Set Packer(s) 9:28 A.M. Time Started Off Bottom 11:30 A.M. Maximum Temperature 108
Initial Hydrostatic Pressure (A) 1774 P.S.I.
Initial Flow Period Minutes 30 (B) 62 P.S.I. to (C) 62 P.S.I.
Initial Closed In Period Minutes 30 (D) 610* P.S.I.
Final Flow Period Minutes 25 (E) 38 P.S.I. to (F) 198 P.S.I.
Final Closed In Period Minutes 30 (G) 602 P.S.I.
Final Hydrostatic Pressure (H) 1748 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 11/19/81 Test Ticket No. 14617

Recorder No. 3474 Capacity 3000 Location 3267 Ft.

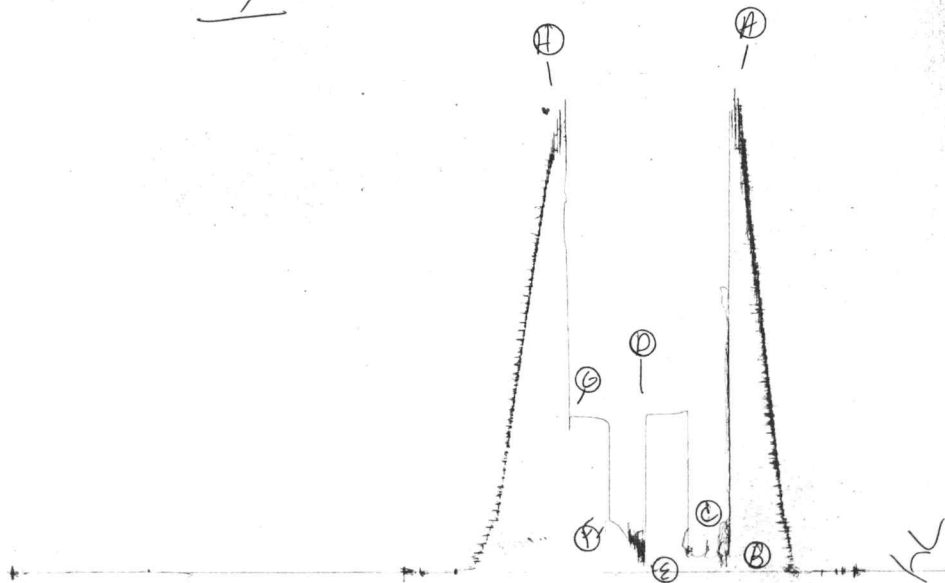
Clock No. - Elevation - Well Temperature 108 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>1774</u> P.S.I.	Open Tool	9:28A	M
B First Initial Flow Pressure <u>62</u> P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure <u>62</u> P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure <u>610*</u> P.S.I.	Second Flow Pressure	30 Mins.	25 Mins.
E Second Initial Flow Pressure <u>38</u> P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure <u>198</u> P.S.I.	*Pressures questionable due to tool being picked up too high.		
G Final Closed-in Pressure <u>602</u> P.S.I.			
H Final Hydrostatic Mud <u>1748</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>10</u> Inc.				Breakdown: <u>5</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>62</u>		<u>0</u>		<u>62</u>		<u>0</u>		<u>38</u>		<u>0</u>		<u>198</u>	
P 2	<u>5</u>	<u>62</u>		<u>3</u>		<u>620*</u>		<u>5</u>		<u>38</u>		<u>3</u>		<u>583</u>	
P 3	<u>10</u>	<u>62</u>		<u>6</u>		<u>614*</u>		<u>10</u>		<u>94</u>		<u>6</u>		<u>591</u>	
P 4	<u>15</u>	<u>62</u>		<u>9</u>		<u>612*</u>		<u>15</u>		<u>144</u>		<u>9</u>		<u>594</u>	
P 5	<u>20</u>	<u>62</u>		<u>12</u>		<u>611*</u>		<u>20</u>		<u>179</u>		<u>12</u>		<u>597</u>	
P 6	<u>25</u>	<u>62</u>		<u>15</u>		<u>610*</u>		<u>25</u>		<u>198</u>		<u>15</u>		<u>598</u>	
P 7	<u>30</u>	<u>62</u>		<u>18</u>		<u>610*</u>						<u>18</u>		<u>599</u>	
P 8				<u>21</u>		<u>610*</u>						<u>21</u>		<u>600</u>	
P 9				<u>24</u>		<u>610*</u>						<u>24</u>		<u>601</u>	
P10				<u>27</u>		<u>610*</u>						<u>27</u>		<u>602</u>	
P11				<u>30</u>		<u>610*</u>						<u>30</u>		<u>602</u>	
P12															
P13															
P14															
P15															
P16															
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TKT # 14617
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Company Brougner Oil, Inc. Lease & Well No. #4 Neeland 'B'
Elevation - Formation Arbuckle Effective Pay - Ft. Ticket No. 14618
Date 11/20/81 Sec. 36 Twp. 19S Range 11W County Barton State Kansas
Test Approved by Greg Maier Western Representative Denis Wondra
Formation Test No. 5 Interval Tested from 3299 ft. to 3315 ft. Total Depth 3315 ft.
Packer Depth 3294 ft. Size 6 5/8 in. Packer Depth 3299 ft. Size 6 5/8 in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3305 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 3308 ft. Recorder Number 1049 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Woodman-Tannitti Rig #2 Drill Collar Length - I. D. - in.
Mud Type Starch Viscosity 54 Weight Pipe Length 360 I. D. 2.8 in.
Weight 9.9 Water Loss 14.6 cc. Drill Pipe Length 2917 I. D. 3.8 in.
Chlorides 66,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 16 ft. Size 5 1/2 OD 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 initial flow period. Strong decreasing blow throughout final flow period.

Recovered 2500 ft. of salt water with scum of oil Chlorides 35,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:48 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 2:50 ~~P.M.~~ ^{A.M.} Maximum Temperature 110
Initial Hydrostatic Pressure (A) 1745 P.S.I.
Initial Flow Period Minutes 45 (B) 389 P.S.I. to (C) 755 P.S.I.
Initial Closed In Period Minutes 45 (D) 927 P.S.I.
Final Flow Period Minutes 40 (E) 833 P.S.I. to (F) 918 P.S.I.
Final Closed In Period Minutes 48 (G) 985 P.S.I.
Final Hydrostatic Pressure (H) 1736 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

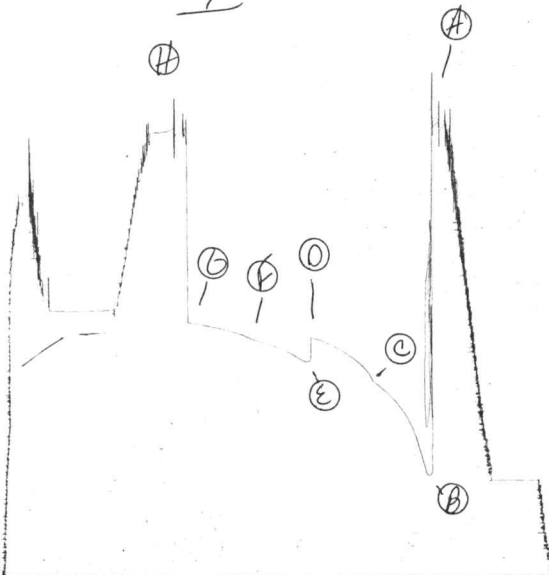
Date 11/20/81 Test Ticket No. 14618
 Recorder No. 3474 Capacity 3000 Location 3305 Ft.
 Clock No. - Elevation - Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1745</u>	P.S.I.	<u>12:48A</u>	<u>M</u>
B First Initial Flow Pressure	<u>389</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
C First Final Flow Pressure	<u>755</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>927</u>	P.S.I.	<u>45</u>	<u>40</u> Mins.
E Second Initial Flow Pressure	<u>833</u>	P.S.I.	<u>45</u>	<u>48</u> Mins.
F Second Final Flow Pressure	<u>918</u>	P.S.I.		
G Final Closed-in Pressure	<u>985</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1736</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>8</u> Inc.		Breakdown: <u>16</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>389</u>	<u>0</u>	<u>755</u>	<u>0</u>	<u>833</u>	<u>0</u>	<u>918</u>
P 2 <u>5</u>	<u>405</u>	<u>3</u>	<u>786</u>	<u>5</u>	<u>835</u>	<u>3</u>	<u>926</u>
P 3 <u>10</u>	<u>494</u>	<u>6</u>	<u>806</u>	<u>10</u>	<u>848</u>	<u>6</u>	<u>933</u>
P 4 <u>15</u>	<u>573</u>	<u>9</u>	<u>823</u>	<u>15</u>	<u>867</u>	<u>9</u>	<u>940</u>
P 5 <u>20</u>	<u>624</u>	<u>12</u>	<u>836</u>	<u>20</u>	<u>879</u>	<u>12</u>	<u>945</u>
P 6 <u>25</u>	<u>661</u>	<u>15</u>	<u>850</u>	<u>25</u>	<u>891</u>	<u>15</u>	<u>950</u>
P 7 <u>30</u>	<u>691</u>	<u>18</u>	<u>860</u>	<u>30</u>	<u>902</u>	<u>18</u>	<u>955</u>
P 8 <u>35</u>	<u>716</u>	<u>21</u>	<u>870</u>	<u>35</u>	<u>909</u>	<u>21</u>	<u>959</u>
P 9 <u>40</u>	<u>739</u>	<u>24</u>	<u>880</u>	<u>40</u>	<u>918</u>	<u>24</u>	<u>964</u>
P10 <u>45</u>	<u>755</u>	<u>27</u>	<u>890</u>			<u>27</u>	<u>967</u>
P11		<u>30</u>	<u>897</u>			<u>30</u>	<u>970</u>
P12		<u>33</u>	<u>904</u>			<u>33</u>	<u>973</u>
P13		<u>36</u>	<u>911</u>			<u>36</u>	<u>976</u>
P14		<u>39</u>	<u>918</u>			<u>39</u>	<u>979</u>
P15		<u>42</u>	<u>923</u>			<u>42</u>	<u>982</u>
P16		<u>45</u>	<u>927</u>			<u>45</u>	<u>984</u>
P17						<u>48</u>	<u>985</u>
P18							
P19							
P20							

TKT # 14618
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176