

Company Brandt Oil Company Lease & Well No. Powell #1
 Elevation (TIGHT HOLE) Formation Kansas City Effective Pay ---- Ft. Ticket No. 5950
 Date 9/23/80 Sec. 29 Twp. 29S Range 2E County Sedgwick State Kansas
 Test Approved by Paul M. Gunzelman Western Representative Allen Edgington
 Formation Test No. 1 Interval Tested from 2656 ft. to 2678 ft. Total Depth 2678 ft.
 Packer Depth 2651 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2656 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2670 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 2673 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Brandt Drilling Co., Inc. Drill Collar Length 156 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 39 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss - cc. Drill Pipe Length 2546 I. D. 2.7 in.
 Chlorides - P.P.M. Test Tool Length 20 ft. Tool Size 4 1/2 in.
 Jars: Make No Serial Number - Anchor Length 22 ft. Size 4 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 3 1/2 IF in.

Blow: Weak throughout test.

Recovered 70 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:45 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 10:45 ~~P.M.~~ ^{A.M.} Maximum Temperature 100°
 Initial Hydrostatic Pressure (A) 1297 P.S.I.
 Initial Flow Period Minutes 30 (B) 25 P.S.I. to (C) 46 P.S.I.
 Initial Closed In Period Minutes 30 (D) 963 P.S.I.
 Final Flow Period Minutes 30 (E) 53 P.S.I. to (F) 62 P.S.I.
 Final Closed In Period Minutes 33 (G) 941 P.S.I.
 Final Hydrostatic Pressure (H) 1278 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 9-23-80 Test Ticket No. 5950
 Recorder No. 3354 Capacity 4200 Location 2670 Fr.
 Clock No. ----- Elevation Tight Hole Well Temperature 100 °F

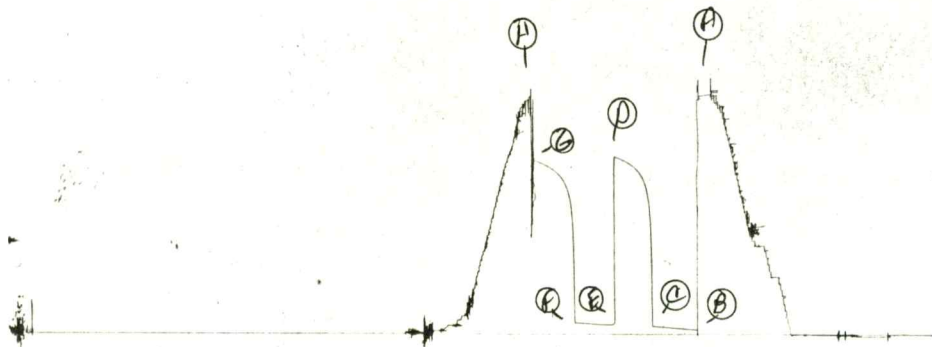
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1297</u> P.S.I.	Open Tool	<u>8:45</u> A.M.	
B First Initial Flow Pressure	<u>25</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>46</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>963</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>53</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>62</u> P.S.I.			
G Final Closed-in Pressure	<u>941</u> P.S.I.			
H Final Hydrostatic Mud	<u>1278</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>6</u> Inc.		Breakdown: <u>11</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>25</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>62</u>
P 2 <u>5</u>	<u>29</u>	<u>3</u>	<u>479</u>	<u>5</u>	<u>53</u>	<u>3</u>	<u>479</u>
P 3 <u>10</u>	<u>32</u>	<u>6</u>	<u>734</u>	<u>10</u>	<u>53</u>	<u>6</u>	<u>713</u>
P 4 <u>15</u>	<u>36</u>	<u>9</u>	<u>823</u>	<u>15</u>	<u>56</u>	<u>9</u>	<u>795</u>
P 5 <u>20</u>	<u>38</u>	<u>12</u>	<u>863</u>	<u>20</u>	<u>59</u>	<u>12</u>	<u>844</u>
P 6 <u>25</u>	<u>42</u>	<u>15</u>	<u>895</u>	<u>25</u>	<u>60</u>	<u>15</u>	<u>867</u>
P 7 <u>30</u>	<u>46</u>	<u>18</u>	<u>916</u>	<u>30</u>	<u>62</u>	<u>18</u>	<u>886</u>
P 8		<u>21</u>	<u>931</u>			<u>21</u>	<u>905</u>
P 9		<u>24</u>	<u>941</u>			<u>24</u>	<u>918</u>
P10		<u>27</u>	<u>951</u>			<u>27</u>	<u>926</u>
P11		<u>30</u>	<u>963</u>			<u>30</u>	<u>934</u>
P12						<u>33</u>	<u>941</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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Company Brandt Oil Company Lease & Well No. Powell #1

Elevation ---- Formation Simpson Effective Pay --- Ft. Ticket No. 6933

Date 9/27/80 Sec. 29 Twp. 29S Range 2E County Sedgwick State Kansas

Test Approved by Paul M. Gunzelman Western Representative Jeff Piotrowski

Formation Test No. 2 Interval Tested from 3551 ft. to 3570 ft. Total Depth 3570 ft.

Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.

Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____

Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____

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

Drilling Contractor Brandt Drilling Drill Collar Length _____ I. D. _____ in.

Mud Type _____ Viscosity _____ Weight Pipe Length _____ I. D. _____ in.

Weight _____ Water Loss _____ cc. Drill Pipe Length _____ I. D. _____ in.

Chlorides _____ P.P.M. Test Tool Length _____ ft. Tool Size _____ in.

Jars: Make _____ Serial Number _____ Anchor Length _____ ft. Size _____ in.

Did Well Flow? _____ Reversed Out _____ Surface Choke Size _____ in. Bottom Choke Size _____ in.

Main Hole Size _____ in. Tool Joint Size _____ in.

Blow: _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: COULD NOT GET TO BOTTOM FIFTEEN STANDS OFF BOTTOM

NO PRESSURES AVAILABLE

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____

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

Initial Flow Period _____ Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.

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

Final Flow Period _____ Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.

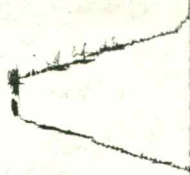
Final Closed In Period _____ Minutes _____ (G) _____ P.S.I.

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

JKT #6933



JKT #6933



Company Brandt Oil Company Lease & Well No. Powell #1

Elevation ---- Formation Simpson Effective Pay ---- Ft. Ticket No. 6934

Date 9/28/80 Sec. 29 Twp. 29S Range 2E County Sedgwick State Kansas

Test Approved by Paul M. Gunzelman Western Representative Jeff Piotrowski

Formation Test No. 3 Interval Tested from 3551 ft. to 3570 ft. Total Depth 3570 ft.

Packer Depth 3546 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3551 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3554 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 3567 ft. Recorder Number 1565 Cap. 4900

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

Drilling Contractor Brandt Drlg. Rig #1 Drill Collar Length 120 I. D. 2.2 in.

Mud Type chemical Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 3411 I. D. 2.2 in.

Chlorides 1,500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 19 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: Weak building to moderate; weak, died in twelve minutes of final flow period.

Recovered 10 ft. of slightly oil and gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: READ OUTSIDE RECORDER

Time Set Packer(s) 5:13 ~~P.M.~~ A.M. Time Started Off Bottom 7:28 ~~P.M.~~ A.M. Maximum Temperature 107°

Initial Hydrostatic Pressure 1601 P.S.I. (A)

Initial Flow Period 45 Minutes (B) 27 P.S.I. to (C) 21 P.S.I.

Initial Closed In Period 27 Minutes (D) 918 P.S.I.

Final Flow Period 30 Minutes (E) 54 P.S.I. to (F) 32 P.S.I.

Final Closed In Period 30 Minutes (G) 926 P.S.I.

Final Hydrostatic Pressure 1569 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 9-28-80 Test Ticket No. 6934
 Recorder No. 1565 Capacity 4900 Location 3567 Ft.
 Clock No. ----- Elevation ----- Well Temperature 107 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1601</u> P.S.I.	Open Tool	<u>5:13</u> A.M.	
B First Initial Flow Pressure	<u>27</u> P.S.I.	First Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>21</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>918</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>54</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>32</u> P.S.I.			
G Final Closed-in Pressure	<u>926</u> P.S.I.			
H Final Hydrostatic Mud	<u>1569</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>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>27</u>	<u>0</u>	<u>21</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>32</u>
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>35</u>	<u>5</u>	<u>35</u>	<u>3</u>	<u>52</u>
P 3 <u>10</u>	<u>30</u>	<u>6</u>	<u>101</u>	<u>10</u>	<u>34</u>	<u>6</u>	<u>144</u>
P 4 <u>15</u>	<u>30</u>	<u>9</u>	<u>260</u>	<u>15</u>	<u>32</u>	<u>9</u>	<u>309</u>
P 5 <u>20</u>	<u>30</u>	<u>12</u>	<u>443</u>	<u>20</u>	<u>32</u>	<u>12</u>	<u>490</u>
P 6 <u>25</u>	<u>22</u>	<u>15</u>	<u>582</u>	<u>25</u>	<u>32</u>	<u>15</u>	<u>629</u>
P 7 <u>30</u>	<u>21</u>	<u>18</u>	<u>708</u>	<u>30</u>	<u>32</u>	<u>18</u>	<u>723</u>
P 8 <u>35</u>	<u>21</u>	<u>21</u>	<u>795</u>			<u>21</u>	<u>795</u>
P 9 <u>40</u>	<u>21</u>	<u>24</u>	<u>866</u>			<u>24</u>	<u>856</u>
P10 <u>45</u>	<u>21</u>	<u>27</u>	<u>918</u>			<u>27</u>	<u>899</u>
P11						<u>30</u>	<u>926</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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D57 #3

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