



Home Office: Wichita, Kansas 67201
 P. O. Box 1599 (316) 838-0601

Company Wheatland Oil & Gas, Inc. Lease & Well No. Brown #1
 Elevation 1099 Ground Level Formation Hoover Sand Effective Pay - Ft. Ticket No. 24504
 Date 3-12-77 Sec. 18 Twp. 35S Range 1E County Sumner State Kansas
 Test Approved by William Dolan Western Representative Norman Allen
 Formation Test No. 1 O.K. Misrun Interval Tested From 2128' to 2150' Total Depth 2150'
 Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 2123 Ft. Size 5 1/2 Bottom Packer Depth 2128 Ft. Size 5 1/2
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 22 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 2143 Ft. Clock No. 6896 Depth 2146 Ft. Clock No. 9102
 Top Make Kuster Cap. 4500 No. 3085 ~~Outside~~ ^{Inside} Bottom Make Kuster Cap. 3200 No. 1561 ~~Outside~~ ^{Inside}
 Below Straddle: Depth - Rec. No. - Clock No. - ~~Outside~~ ^{Inside} Depth - Ft. Rec. No. - Clock No. - ~~Outside~~ ^{Inside}
 Time Set Packer 1:58P. M
 Tool Open I.F.P. From 2:00P M. to 2:30P M. - Hr. 30 Min. From (B) 43 P.S.I. To (C) 67 P.S.I.
 Tool Closed I.C.I.P. From 2:30P M. to 3:00P M. - Hr. 30 Min (D) 860 P.S.I.
 Tool Open F.F.P. From 3:00P M. to 3:30P M. - Hr. 30 Min. From (E) 100 P.S.I. To (F) 115 P.S.I.
 Tool Closed F.C.I.P. From 3:30P M. to 4:15P M. - Hr. 45 Min. (G) 863 P.S.I.
 Initial Hydrostatic Pressure (A) 1058 P.S.I. Final Hydrostatic Pressure (H) 1044 P.S.I. Maximum Temp. 98

INFORMATION

BLOW Fair blow throughout test.
 Did Well Flow Yes No Recovery Total Ft. 240' of slightly muddy salt water.
 Reversed Out Yes No Mud Type Chem Viscosity 48 Weight 9.4 Water Loss 16 cc. Chlorides 4600 PPM
 EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -
 Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -
 DRILLING CONTRACTOR B&N Drilling Co., Inc. Length Drill Pipe? 1988 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 3 1/2 IF In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 120 Ft. I.D. Drill Collars 2 In.
 Tool Joint Size 3 1/2 IF In. Length D.S.T. Tool 42 Ft.
 Remarks: Fluid recovery checked: 145,000 PPM Chlorides, .44 Resistivity at 56 degrees F.

WESTERN TESTING CO., INC.
Pressure Data

Date 3-12-77 Test Ticket No. 24504
 Recorder No. 3085 Capacity 4500 Location 2143 Ft.
 Clock No. 6896 Elevation 1099 Ground Level Well Temperature 98 °F

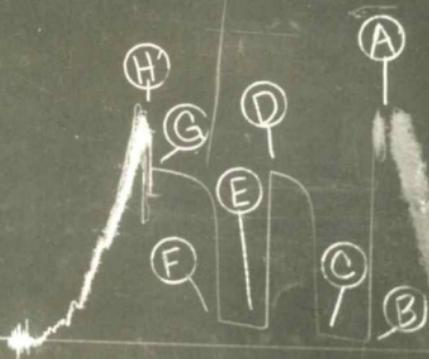
Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1058</u>	<u>P.S.I.</u>	Open Tool	<u>1:58P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>43</u>	<u>P.S.I.</u>	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>67</u>	<u>P.S.I.</u>	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>860</u>	<u>P.S.I.</u>	Second Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
E Second Initial Flow Pressure	<u>100</u>	<u>P.S.I.</u>	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>115</u>	<u>P.S.I.</u>			
G Final Closed-in Pressure	<u>863</u>	<u>P.S.I.</u>			
H Final Hydrostatic Mud	<u>1044</u>	<u>P.S.I.</u>			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	<u>6</u>	<u>Inc.</u>	<u>10</u>	<u>Inc.</u>	<u>5</u>	<u>Inc.</u>	<u>15</u>	<u>Inc.</u>
	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 10	<u>43</u>	<u>0</u>	<u>67</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>115</u>	
P 25	<u>36</u>	<u>3</u>	<u>418</u>	<u>5</u>	<u>89</u>	<u>3</u>	<u>539</u>	
P 310	<u>43</u>	<u>6</u>	<u>667</u>	<u>10</u>	<u>97</u>	<u>6</u>	<u>706</u>	
P 415	<u>48</u>	<u>9</u>	<u>753</u>	<u>15</u>	<u>103</u>	<u>9</u>	<u>760</u>	
P 520	<u>53</u>	<u>12</u>	<u>788</u>	<u>20</u>	<u>108</u>	<u>12</u>	<u>786</u>	
P 625	<u>57</u>	<u>15</u>	<u>811</u>	<u>25</u>	<u>115</u>	<u>15</u>	<u>804</u>	
P 730	<u>67</u>	<u>18</u>	<u>825</u>			<u>18</u>	<u>815</u>	
P 8		<u>21</u>	<u>838</u>			<u>21</u>	<u>825</u>	
P 9		<u>24</u>	<u>849</u>			<u>24</u>	<u>832</u>	
P10		<u>27</u>	<u>853</u>			<u>27</u>	<u>841</u>	
P11		<u>30</u>	<u>860</u>			<u>30</u>	<u>844</u>	
P12						<u>33</u>	<u>848</u>	
P13						<u>36</u>	<u>853</u>	
P14						<u>39</u>	<u>857</u>	
P15						<u>42</u>	<u>860</u>	
P16						<u>45</u>	<u>863</u>	
P17								
P18								
P19								
P20								

Ticket # 24504

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 P. O. Box 1599 (316) 838-0601

Company Wheatland Oil & Gas, Inc. Lease & Well No. Brown #1
 Elevation 1099 Ground Level Formation Hoover Sand Effective Pay - Ft. Ticket No. 21794
 Date 3-13-77 Sec. 13 Twp. 35S Range 1E County Sumner State Kansas
 Test Approved by William Dolan Western Representative Forrest Purnell

Formation Test No. 2 O.K. Misrun Interval Tested From 2227' to 2300' Total Depth 2300'
 Size Main Hole 7 7/8" at Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 2222 Ft. Size 5 1/2" Bottom Packer Depth 2227 Ft. Size 5 1/2"
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 4 1/2" OD Tool Joint Size 3 1/2" IF Anchor Length 73 Ft. Size 4 1/2" OD & DC Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2231 Ft. Clock No. 8476 Depth 2234 Ft. Clock No. 6800
 Top Make Kuster Cap. 4200 No. 1558 ^{Inside} _{Outside} Bottom Make Kuster Cap. 3150 No. 1564 ^{Inside} _{Outside}
 Below Straddle: Depth - Rec. No. - Clock No. - ^{Inside} _{Outside} Depth - Ft. Rec. No. - Clock No. - ^{Inside} _{Outside}

Time Set Packer 6:27A. M
 Tool Open I.F.P. From 6:30A M. to 7:00AM - Hr. 30 Min. From (B) 19 P.S.I. To (C) 34 P.S.I.
 Tool Closed I.C.I.P. From 7:00AM to 7:30AM - Hr. 30 Min (D) 664 P.S.I.
 Tool Open F.F.P. From 7:30A M. to 8:00AM - Hr. 30 Min. From (E) 61 P.S.I. To (F) 54 P.S.I.
 Tool Closed F.C.I.P. From 8:00AM to 8:45AM - Hr. 45 Min. (G) 658 P.S.I.
 Initial Hydrostatic Pressure (A) 1142 P.S.I. Final Hydrostatic Pressure (H) 1123 P.S.I. Maximum Temp. 99

INFORMATION

BLOW Weak 1/4" blow increasing to a weak 4" blow throughout test.

Did Well Flow Yes No Recovery Total Ft. 30' of very slightly gas cut drilling mud, 60' of drilling mud.

Reversed Out Yes No Mud Type Chem Viscosity 51 Weight 9.5+ Water Loss 16.0 cc. Chlorides 6000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR B&N Drilling Co. (#4) Length Drill Pipe? 2147 Ft. I.D. Drill Pipe 2.7 In. Tool Joint Size 3 1/2" IF In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 60 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size 3 1/2" IF In. Length D.S.T. Tool 93 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 3-13-77 Test Ticket No. 21794
 Recorder No. 1558 Capacity 4200 Location 2231 Ft.
 Clock No. 8476 Elevation 1099 Ground Level Well Temperature 99 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1142</u> P.S.I.	Open Tool	<u>6:27A.</u> M	
B First Initial Flow Pressure	<u>19</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>34</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>664</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>61</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>54</u> P.S.I.			
G Final Closed-in Pressure	<u>658</u> P.S.I.			
H Final Hydrostatic Mud	<u>1123</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>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>6</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>0</u>	<u>19</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>61</u>	<u>0</u>	<u>54</u>
P 2 <u>5</u>	<u>23</u>	<u>3</u>	<u>101</u>	<u>5</u>	<u>48</u>	<u>3</u>	<u>108</u>
P 3 <u>10</u>	<u>27</u>	<u>6</u>	<u>308</u>	<u>10</u>	<u>48</u>	<u>6</u>	<u>270</u>
P 4 <u>15</u>	<u>29</u>	<u>9</u>	<u>457</u>	<u>15</u>	<u>51</u>	<u>9</u>	<u>406</u>
P 5 <u>20</u>	<u>31</u>	<u>12</u>	<u>535</u>	<u>20</u>	<u>52</u>	<u>12</u>	<u>483</u>
P 6 <u>25</u>	<u>33</u>	<u>15</u>	<u>579</u>	<u>25</u>	<u>53</u>	<u>15</u>	<u>533</u>
P 7 <u>30</u>	<u>34</u>	<u>18</u>	<u>608</u>	<u>30</u>	<u>54</u>	<u>18</u>	<u>562</u>
P 8		<u>21</u>	<u>626</u>	<u>35</u>		<u>21</u>	<u>585</u>
P 9		<u>24</u>	<u>643</u>	<u>40</u>		<u>24</u>	<u>600</u>
P10		<u>27</u>	<u>656</u>	<u>45</u>		<u>27</u>	<u>613</u>
P11		<u>30</u>	<u>664</u>	<u>50</u>		<u>30</u>	<u>625</u>
P12				<u>55</u>		<u>33</u>	<u>635</u>
P13				<u>60</u>		<u>36</u>	<u>644</u>
P14				<u>65</u>		<u>39</u>	<u>648</u>
P15				<u>70</u>		<u>42</u>	<u>656</u>
P16				<u>75</u>		<u>45</u>	<u>658</u>
P17				<u>80</u>			
P18				<u>85</u>			
P19				<u>90</u>			
P20				<u>95</u>			

Ticket # 21794

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1558



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Wheatland Oil & Gas, Inc. Lease & Well No. Esther E. Brown #1
Elevation 1011 Ground Level Formation Layton Effective Pay - Ft. Ticket No. 24505
Date 3-15-77 Sec. 1 Twp. 35S Range 1E County Sumner State Kansas
Test Approved by William Dolan Western Representative Bill Baker

Formation Test No. 3 O.K. Misrun Interval Tested From 3004' to 3048' Total Depth 3048'
Size Main Hole 6 1/2 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 2999 Ft. Size 5 1/2 Bottom Packer Depth 3004 Ft. Size 5 1/2
Straddle Conv. B.T. Damaged Yes No Packer Depth Ft. Size
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 44 Ft. Size 4 1/2 OD&DC Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3015 Ft. Clock No. 8476 Depth 3018 Ft. Clock No. 6896
Top Make Kuster Cap. 4500 No. 3085 ^{Inside} ~~Outside~~ Bottom Make Kuster Cap. 3150 No. 1562 ^{Inside} ~~Outside~~
Below Straddle: Depth Rec. No. Clock No. ^{Inside} ~~Outside~~ Depth Ft. Rec. No. Clock No. ^{Inside} ~~Outside~~

Time Set Packer 6:58 A M
Tool Open I.F.P. From 7:00 AM. to 7:30 AM. - Hr. 30 Min. From (B) 266 P.S.I. To (C) 970 P.S.I.
Tool Closed I.C.I.P. From 7:30 M. to 8:00 AM. - Hr. 30 Min (D) 1186 P.S.I.
Tool Open F.F.P. From 8:00 AM. to 8:30 AM. - Hr. 30 Min. From (E) 1014 P.S.I. To (F) 1150 P.S.I.
Tool Closed F.C.I.P. From 8:30 M. to 9:15 AM. - Hr. 45 Min. (G) 1209 P.S.I.
Initial Hydrostatic Pressure (A) 1523 P.S.I. Final Hydrostatic Pressure (H) 1511 P.S.I. Maximum Temp. 112

INFORMATION

BLOW Strong blow decreasing to a very weak blow in 20 minutes into final flow period. Gas to surface in 70 minutes.

Did Well Flow Yes No Recovery Total Ft. 2280' total recovery. 140' slightly oil & gas cut mud, 240' muddy saltwater, 1900' clean saltwater.

Reversed Out Yes No Mud Type chem Viscosity 45 Weight 9.4 Water Loss 16.8 cc. Chlorides 4,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Jars: Size In. Make Ser. No.

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where?

DRILLING CONTRACTOR B & N Drlg. Co. Length Drill Pipe? 2958 Ft. I.D. Drill Pipe 2.8 In. Tool Joint Size 3 1/2 IF In.

Length Weight Pipe Ft. I.D. Weight Pipe In. Tool Joint Size In. Length Drill Collars 90 Ft. I.D. Drill Collars 2 In.

Tool Joint Size 3 1/2 IF In. Length D.S.T. Tool 34 Ft.

Remarks:

70 miles from Augusta to rig. Charge for 20 miles @ 60¢ per mile.

Not enough volume to guage gas.

WESTERN TESTING CO., INC.

Pressure Data

Date 3-15-77 Test Ticket No. 24505
 Recorder No. 3085 Capacity 4500 Location 3015 Ft.
 Clock No. 8476 Elevation 1011 Ground Level Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1523</u>	P.S.I.	<u>6:58</u>	<u>A M</u>
B First Initial Flow Pressure	<u>266</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Min
C First Final Flow Pressure	<u>970</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Min
D Initial Closed-in Pressure	<u>1186</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Min
E Second Initial Flow Pressure	<u>1014</u>	P.S.I.	<u>45</u>	<u>Mins. 45</u> Min
F Second Final Flow Pressure	<u>1150</u>	P.S.I.		
G Final Closed-in Pressure	<u>1209</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1511</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: 6 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>266</u>	<u>0</u>	<u>970</u>	<u>0</u>	<u>1014</u>	<u>0</u>	<u>1150</u>
P 2 <u>5</u>	<u>418</u>	<u>3</u>	<u>1122</u>	<u>5</u>	<u>1044</u>	<u>3</u>	<u>1185</u>
P 3 <u>10</u>	<u>600</u>	<u>6</u>	<u>1143</u>	<u>10</u>	<u>1080</u>	<u>6</u>	<u>1190</u>
P 4 <u>15</u>	<u>734</u>	<u>9</u>	<u>1157</u>	<u>15</u>	<u>1109</u>	<u>9</u>	<u>1194</u>
P 5 <u>20</u>	<u>833</u>	<u>12</u>	<u>1162</u>	<u>20</u>	<u>1127</u>	<u>12</u>	<u>1196</u>
P 6 <u>25</u>	<u>907</u>	<u>15</u>	<u>1167</u>	<u>25</u>	<u>1143</u>	<u>15</u>	<u>1199</u>
P 7 <u>30</u>	<u>970</u>	<u>18</u>	<u>1173</u>	<u>30</u>	<u>1150</u>	<u>18</u>	<u>1200</u>
P 8 _____	_____	<u>21</u>	<u>1178</u>	_____	_____	<u>21</u>	<u>1201</u>
P 9 _____	_____	<u>24</u>	<u>1182</u>	_____	_____	<u>24</u>	<u>1202</u>
P10 _____	_____	<u>27</u>	<u>1183</u>	_____	_____	<u>27</u>	<u>1203</u>
P11 _____	_____	<u>30</u>	<u>1186</u>	_____	_____	<u>30</u>	<u>1204</u>
P12 _____	_____	_____	_____	_____	_____	<u>33</u>	<u>1205</u>
P13 _____	_____	_____	_____	_____	_____	<u>36</u>	<u>1206</u>
P14 _____	_____	_____	_____	_____	_____	<u>39</u>	<u>1207</u>
P15 _____	_____	_____	_____	_____	_____	<u>42</u>	<u>1208</u>
P16 _____	_____	_____	_____	_____	_____	<u>45</u>	<u>1209</u>
P17 _____	_____	_____	_____	_____	_____	_____	_____
P18 _____	_____	_____	_____	_____	_____	_____	_____
P19 _____	_____	_____	_____	_____	_____	_____	_____
P20 _____	_____	_____	_____	_____	_____	_____	_____

JK7# 24505

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