

Company Glacier Petroleum Company, Inc. Lease & Well No. Ralston #1
 Elevation 1284 Ground Level Formation Simpson Sand Effective Pay --- Ft. Ticket No. 6710
 Date 10/5/80 Sec. 6 Twp. 28S Range 4E County Butler State Kansas
 Test Approved by Wilbur C. Bradley Western Representative Norman Allen

Formation Test No. 1 Interval Tested from 2935 ft. to 2947 ft. Total Depth 2947 ft.
 Packer Depth 2935 ft. Size 6 3/4 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) 2940 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 2943 ft. Recorder Number 5666 Cap. 3950
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Glacier Drlg. Co. Rig #1 Drill Collar Length 180 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 46 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 11 cc. Drill Pipe Length 2740 I. D. 2.7 in.
 Chlorides 1,600 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 12 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 3 1/2 IF in.

Fair diminishing slightly at end of test.

Blow: _____

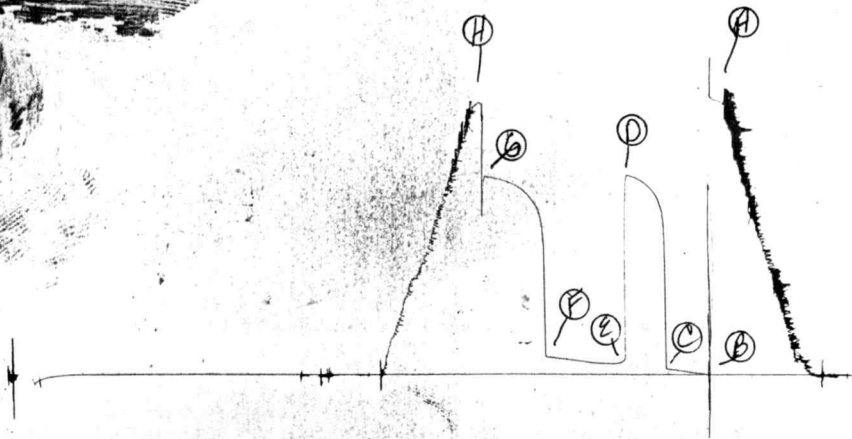
 Recovered 210 ft. of gassy free oil 39 gravity (corrected)
 Recovered 30 ft. of muddy gassy oil
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 1:15 ~~AM~~ P.M. Time Started Off Bottom 4:00 ~~AM~~ P.M. Maximum Temperature 106°
 Initial Hydrostatic Pressure (A) 1479 P.S.I.
 Initial Flow Period Minutes 30 (B) 5 P.S.I. to (C) 34 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1075 P.S.I.
 Final Flow Period Minutes 60 (E) 75 P.S.I. to (F) 98 P.S.I.
 Final Closed In Period Minutes 45 (G) 1070 P.S.I.
 Final Hydrostatic Pressure (H) 1462 P.S.I.

JK# 6710
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WESTERN TESTING CO., INC.

Pressure Data

Date 10-5-80 Test Ticket No. 6710
 Recorder No. 1559 Capacity 4200 Location 2940 Ft.
 Clock No. - Elevation 1284 Ground Level Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1479</u>	P.S.I.	<u>1:15P</u>	<u>M</u>
B First Initial Flow Pressure	<u>5</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>34</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1075</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>75</u>	P.S.I.	<u>45</u>	<u>45</u> Mins.
F Second Final Flow Pressure	<u>98</u>	P.S.I.		
G Final Closed-in Pressure	<u>1070</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1462</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>12</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>5</u>	<u>0</u>	<u>34</u>	<u>0</u>	<u>75</u>	<u>0</u>	<u>98</u>
P 2 <u>5</u>	<u>8</u>	<u>3</u>	<u>756</u>	<u>5</u>	<u>63</u>	<u>3</u>	<u>671</u>
P 3 <u>10</u>	<u>13</u>	<u>6</u>	<u>902</u>	<u>10</u>	<u>63</u>	<u>6</u>	<u>837</u>
P 4 <u>15</u>	<u>18</u>	<u>9</u>	<u>956</u>	<u>15</u>	<u>64</u>	<u>9</u>	<u>902</u>
P 5 <u>20</u>	<u>25</u>	<u>12</u>	<u>992</u>	<u>20</u>	<u>65</u>	<u>12</u>	<u>935</u>
P 6 <u>25</u>	<u>29</u>	<u>15</u>	<u>1015</u>	<u>25</u>	<u>68</u>	<u>15</u>	<u>962</u>
P 7 <u>30</u>	<u>34</u>	<u>18</u>	<u>1035</u>	<u>30</u>	<u>75</u>	<u>18</u>	<u>985</u>
P 8		<u>21</u>	<u>1048</u>	<u>35</u>	<u>79</u>	<u>21</u>	<u>1004</u>
P 9		<u>24</u>	<u>1061</u>	<u>40</u>	<u>84</u>	<u>24</u>	<u>1019</u>
P10		<u>27</u>	<u>1067</u>	<u>45</u>	<u>88</u>	<u>27</u>	<u>1029</u>
P11		<u>30</u>	<u>1075</u>	<u>50</u>	<u>92</u>	<u>30</u>	<u>1040</u>
P12				<u>55</u>	<u>96</u>	<u>33</u>	<u>1046</u>
P13				<u>60</u>	<u>98</u>	<u>36</u>	<u>1052</u>
P14						<u>39</u>	<u>1058</u>
P15						<u>42</u>	<u>1063</u>
P16						<u>45</u>	<u>1070</u>
P17							
P18							
P19							
P20							