

Company Glacier Petroleum Company, Inc. Lease & Well No. #1 Kanady  
 Elevation 1532 Ground Level Formation Mississippi Effective Pay --- Ft. Ticket No. 13837  
 Date 1/14/83 Sec. 1 Twp. 28S Range 7E County Butler State Kansas  
 Test Approved by Chuck M. Kuhl Western Representative Allen Edgington

Formation Test No. 1 Interval Tested from 2790 ft. to 2810 ft. Total Depth 2810 ft.  
 Packer Depth 2810 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) 2802 ft. Recorder Number 5666 Cap. 3950  
 Bottom Recorder Depth (Outside) 2805 ft. Recorder Number 11019 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Glacier Drilling Rig #1 Drill Collar Length 153 I. D. 2 1/4 in.  
 Mud Type chemical Viscosity 36 Weight Pipe Length - I. D. - in.  
 Weight 9.5 Water Loss 12.0 cc. Drill Pipe Length 2633 I. D. 2.7 in.  
 Chlorides 1,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 OD in.  
 Jars: Make - Serial Number - Anchor Length 20 ft. Size 5 1/2 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 3 1/2 IF in.

Blow: Strong throughout. Gas to surface in ninety minutes -right at final shut-in.

Recovered 230 ft. of free oil 37 Spec. Gravity  
 Recovered 155 ft. of heavy oil cut mud 40% oil  
 Recovered - ft. of -  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: \_\_\_\_\_

Time Set Packer(s) 9:30 A.M. Time Started Off Bottom 12:30 P.M. Maximum Temperature 114°  
 Initial Hydrostatic Pressure (A) 1420 P.S.I.  
 Initial Flow Period Minutes 25 (B) 39 P.S.I. to (C) 86 P.S.I.  
 Initial Closed In Period Minutes 30 (D) 673 P.S.I.  
 Final Flow Period Minutes 60 (E) 115 P.S.I. to (F) 173 P.S.I.  
 Final Closed In Period Minutes 60 (G) 688 P.S.I.  
 Final Hydrostatic Pressure (H) 1395 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 1/14/83 Test Ticket No. 13837  
 Recorder No. 5666 Capacity 3950 Location 2802 Ft.  
 Clock No. --- Elevation 1532 Ground Level Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1420</u> P.S.I.	Open Tool	<u>9:30A</u>	<u>M</u>
B. First Initial Flow Pressure	<u>39</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C. First Final Flow Pressure	<u>86</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>673</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E. Second Initial Flow Pressure	<u>115</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F. Second Final Flow Pressure	<u>173</u> P.S.I.			
G. Final Closed-in Pressure	<u>688</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1395</u> P.S.I.			

### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:		Breakdown:		Breakdown:		Breakdown:	
	<u>5</u> Inc.		<u>10</u> Inc.		<u>12</u> Inc.		<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.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>39</u>	<u>0</u>	<u>86</u>	<u>0</u>	<u>115</u>	<u>0</u>	<u>173</u>	<u>0</u>
P 2	<u>49</u>	<u>3</u>	<u>255</u>	<u>3</u>	<u>115</u>	<u>5</u>	<u>357</u>	<u>3</u>
P 3	<u>65</u>	<u>6</u>	<u>397</u>	<u>6</u>	<u>118</u>	<u>10</u>	<u>497</u>	<u>6</u>
P 4	<u>71</u>	<u>9</u>	<u>514</u>	<u>9</u>	<u>122</u>	<u>15</u>	<u>554</u>	<u>9</u>
P 5	<u>82</u>	<u>12</u>	<u>573</u>	<u>12</u>	<u>128</u>	<u>20</u>	<u>582</u>	<u>12</u>
P 6	<u>86</u>	<u>15</u>	<u>608</u>	<u>15</u>	<u>135</u>	<u>25</u>	<u>598</u>	<u>15</u>
P 7		<u>18</u>	<u>625</u>	<u>18</u>	<u>141</u>	<u>30</u>	<u>613</u>	<u>18</u>
P 8		<u>21</u>	<u>641</u>	<u>21</u>	<u>145</u>	<u>35</u>	<u>624</u>	<u>21</u>
P 9		<u>24</u>	<u>656</u>	<u>24</u>	<u>152</u>	<u>40</u>	<u>634</u>	<u>24</u>
P10		<u>27</u>	<u>667</u>	<u>27</u>	<u>159</u>	<u>45</u>	<u>640</u>	<u>27</u>
P11		<u>30</u>	<u>673</u>	<u>30</u>	<u>165</u>	<u>50</u>	<u>649</u>	<u>30</u>
P12					<u>171</u>	<u>55</u>	<u>655</u>	<u>33</u>
P13					<u>173</u>	<u>60</u>	<u>662</u>	<u>36</u>
P14							<u>667</u>	<u>39</u>
P15							<u>672</u>	<u>42</u>
P16							<u>675</u>	<u>45</u>
P17							<u>679</u>	<u>48</u>
P18							<u>681</u>	<u>51</u>
P19							<u>684</u>	<u>54</u>
P20							<u>687</u>	<u>57</u>
							<u>688</u>	<u>60</u>

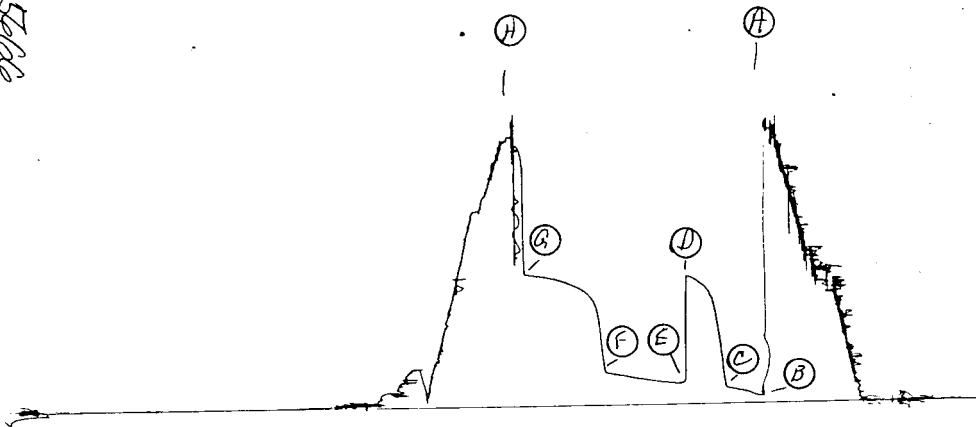
DST #1

TKT. 13837

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 13837

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 1532 GL Formation MISS Eff. Pay Ft.

District AUGUSTA Date 1-14-83 Customer Order No.

COMPANY NAME GLACIER PETROLEUM Co., INC.

ADDRESS PO Box 577 EMPORIA, KS 66801

LEASE AND WELL NO. KANADY #1 COUNTY Butler STATE KS Sec. 1 Twp 28S Rge 7E

Mail Invoice To SAME #1 KANADY Co. Name No. Copies Requested 1

Mail Charts To SAME (COPIES to CHUCK Kuhl) Address 608 ONE MAIN PLACE No. Copies Requested 5 B

Address WICHITA KS 67212

Formation Test No. 1 Interval Tested from 2790 ft. to 2810 ft. Total Depth 2810 ft.

Packer Depth 2810 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2802 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 2805 ft. Recorder Number 11019 Cap. 4500

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

Drilling Contractor GLACIER #1 Drill Collar Length 153 I. D. 2 1/4 in.

Mud Type CHEM Viscosity 36 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 12 cc. Drill Pipe Length 2633 I. D. 2.7 in.

Chlorides 1000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in. O.D.

Jars: Make - Serial Number - Anchor Length 20 ft. Size 5 1/2 in. O.D.

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 3 1/2 IF in.

Blow: STRONG Then out GAS TO SURFACE 90MIN - Right at FINAL SHUT IN.

Recovered 230 ft. of FREE OIL 37 SPEC. GRAV.

Recovered 155 ft. of HEAVY OIL CUT MUD 40% OIL

Recovered - ft. of

Recovered - ft. of

Remarks: 385 total

Time On Location 5:45 A.M. Time Pick Up Tool 8:00 A.M. Time Off Location 3:00 P.M.

Time Set Packer(s) 9:30 A.M. Time Started Off Bottom 12:30 P.M. Maximum Temperature 114 F

Initial Hydrostatic Pressure (A) 1415 P.S.I.

Initial Flow Period Minutes 30 (B) 40 P.S.I. to (C) 80 P.S.I.

Initial Closed In Period Minutes 30 (D) 670 P.S.I.

Final Flow Period Minutes 60 (E) 110 P.S.I. to (F) 165 P.S.I.

Final Closed In Period Minutes 60 (G) 690 P.S.I.

Final Hydrostatic Pressure (H) 1395 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Chuck M. Kuhl Signature of Customer or his authorized representative

Western Representative Allen Edgington

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test (\$600), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts (\$40), Insurance, and TOTAL (\$640).

WESTERN TESTING CO., INC.

Pressure Data

Date: 1-14-83 Test Ticket No. 12827  
 Recorder No. 56666 Capacity 3950 Location 2802 Ft.  
 Clock No. --- Elevation 1532 GL Well Temperature 114 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1420</u> P.S.I.	<u>9:30A</u> M	
B First Initial Flow Pressure	<u>39</u> P.S.I.	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>84</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>673</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>115</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>173</u> P.S.I.		
G Final Closed-in Pressure	<u>688</u> P.S.I.		
H Final Hydrostatic Mud	<u>1395</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</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>0</u>	<u>84</u>	<u>0</u>	<u>115</u>	<u>0</u>	<u>173</u>
P 2	<u>5</u>	<u>3</u>	<u>255</u>	<u>5</u>	<u>115</u>	<u>3</u>	<u>357</u>
P 3	<u>10</u>	<u>6</u>	<u>397</u>	<u>10</u>	<u>118</u>	<u>6</u>	<u>497</u>
P 4	<u>15</u>	<u>9</u>	<u>514</u>	<u>15</u>	<u>122</u>	<u>9</u>	<u>554</u>
P 5	<u>20</u>	<u>12</u>	<u>573</u>	<u>20</u>	<u>128</u>	<u>12</u>	<u>582</u>
P 6	<u>25</u>	<u>15</u>	<u>608</u>	<u>25</u>	<u>135</u>	<u>15</u>	<u>598</u>
P 7	<u>30</u>	<u>18</u>	<u>625</u>	<u>30</u>	<u>141</u>	<u>18</u>	<u>612</u>
P 8	<u>35</u>	<u>21</u>	<u>641</u>	<u>35</u>	<u>145</u>	<u>21</u>	<u>624</u>
P 9	<u>40</u>	<u>24</u>	<u>656</u>	<u>40</u>	<u>152</u>	<u>24</u>	<u>634</u>
P10	<u>45</u>	<u>27</u>	<u>667</u>	<u>45</u>	<u>159</u>	<u>27</u>	<u>640</u>
P11	<u>50</u>	<u>30</u>	<u>673</u>	<u>50</u>	<u>165</u>	<u>30</u>	<u>649</u>
P12	<u>55</u>	<u>33</u>		<u>55</u>	<u>171</u>	<u>33</u>	<u>655</u>
P13	<u>60</u>	<u>36</u>		<u>60</u>	<u>173</u>	<u>36</u>	<u>662</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>667</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>672</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	<u>675</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>679</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>681</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>684</u>
P20		<u>57</u>				<u>57</u>	<u>687</u>
		<u>60</u>				<u>60</u>	<u>688</u>

Company Glacier Petroleum Company, Inc. Lease & Well No. #1 Kanady  
 Elevation 1532 Ground Level Formation Mississippi Effective Pay --- Ft. Ticker No. 13838  
 Date 1/ 15/83 Sec. 1 Twp. 28S Range 7E County Butler State Kansas  
 Test Approved by Chuck M. Kuhl Western Representative Allen Edgington

Formation Test No. 2 Interval Tested from 2811 ft. to 2830 ft. Total Depth 2830 ft.  
 Packer Depth 2811 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) 2822 ft. Recorder Number 5666 Cap. 3950  
 Bottom Recorder Depth (Outside) 2825 ft. Recorder Number 11019 Cap. 4500  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Glacier Drilling Rig #1 Drill Collar Length 153 I. D. 2 1/4 in.  
 Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.  
 Weight 9.7 Water Loss 11.4 cc. Drill Pipe Length 2663 I. D. 2.7 in.  
 Chlorides 1,400 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 OD  
 Jars: Make - Serial Number - Anchor Length 19 ft. Size 5 1/2 OD  
 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: Strong throughout test.

Recovered 2100 ft. of gas in pipe  
 Recovered 240 ft. of free oil 38° spec. gravity  
 Recovered 155 ft. of heavy oil cut mud 40%  
 Recovered - ft. of -  
 Recovered - ft. of -

Remarks: -

Time Set Packer(s) 12:00 A.M. Time Started Off Bottom 3:00 P.M. Maximum Temperature 115°  
 Initial Hydrostatic Pressure (A) 1448 P.S.I.  
 Initial Flow Period Minutes 30 (B) 58 P.S.I. to (C) 94 P.S.I.  
 Initial Closed In Period Minutes 30 (D) 701 P.S.I.  
 Final Flow Period Minutes 60 (E) 116 P.S.I. to (F) 163 P.S.I.  
 Final Closed In Period Minutes 60 (G) 711 P.S.I.  
 Final Hydrostatic Pressure (H) 1418 P.S.I.

# WESTERN TESTING CO., INC.

## Pressure Data

Date 1/15/83 Test Ticket No. 13838  
 Recorder No. 5666 Capacity 3950 Location 2822 Ft.  
 Clock No. -- Elevation 1532 Ground Level Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1448</u>	P.S.I.	<u>12:00A</u>	<u>M</u>
B First Initial Flow Pressure	<u>58</u>	P.S.I.	<u>30</u>	<u>30</u> Mins
C First Final Flow Pressure	<u>94</u>	P.S.I.	<u>30</u>	<u>30</u> Mins
D Initial Closed-in Pressure	<u>701</u>	P.S.I.	<u>60</u>	<u>60</u> Mins
E Second Initial Flow Pressure	<u>116</u>	P.S.I.	<u>60</u>	<u>60</u> Mins
F Second Final Flow Pressure	<u>163</u>	P.S.I.		
G Final Closed-in Pressure	<u>711</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1418</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		of <u>10</u> mins. and a		of <u>12</u> mins. and a		of <u>20</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.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>58</u>	<u>0</u>	<u>94</u>	<u>0</u>	<u>116</u>	<u>0</u>	<u>163</u>	<u>0</u>
P 2	<u>62</u>	<u>3</u>	<u>391</u>	<u>3</u>	<u>116</u>	<u>3</u>	<u>452</u>	<u>3</u>
P 3	<u>68</u>	<u>6</u>	<u>595</u>	<u>6</u>	<u>118</u>	<u>6</u>	<u>579</u>	<u>6</u>
P 4	<u>76</u>	<u>9</u>	<u>635</u>	<u>9</u>	<u>120</u>	<u>9</u>	<u>615</u>	<u>9</u>
P 5	<u>83</u>	<u>12</u>	<u>653</u>	<u>12</u>	<u>126</u>	<u>12</u>	<u>631</u>	<u>12</u>
P 6	<u>90</u>	<u>15</u>	<u>667</u>	<u>15</u>	<u>129</u>	<u>15</u>	<u>645</u>	<u>15</u>
P 7	<u>94</u>	<u>18</u>	<u>679</u>	<u>18</u>	<u>134</u>	<u>18</u>	<u>656</u>	<u>18</u>
P 8		<u>21</u>	<u>687</u>	<u>21</u>	<u>142</u>	<u>21</u>	<u>665</u>	<u>21</u>
P 9		<u>24</u>	<u>694</u>	<u>24</u>	<u>148</u>	<u>24</u>	<u>671</u>	<u>24</u>
P10		<u>27</u>	<u>700</u>	<u>27</u>	<u>152</u>	<u>27</u>	<u>679</u>	<u>27</u>
P11		<u>30</u>	<u>701</u>	<u>30</u>	<u>156</u>	<u>30</u>	<u>683</u>	<u>30</u>
P12					<u>161</u>	<u>33</u>	<u>688</u>	<u>33</u>
P13					<u>163</u>	<u>36</u>	<u>693</u>	<u>36</u>
P14						<u>39</u>	<u>695</u>	<u>39</u>
P15						<u>42</u>	<u>699</u>	<u>42</u>
P16						<u>45</u>	<u>701</u>	<u>45</u>
P17						<u>48</u>	<u>704</u>	<u>48</u>
P18						<u>51</u>	<u>707</u>	<u>51</u>
P19						<u>54</u>	<u>709</u>	<u>54</u>
P20						<u>57</u>	<u>710</u>	<u>57</u>
						<u>60</u>	<u>711</u>	<u>60</u>

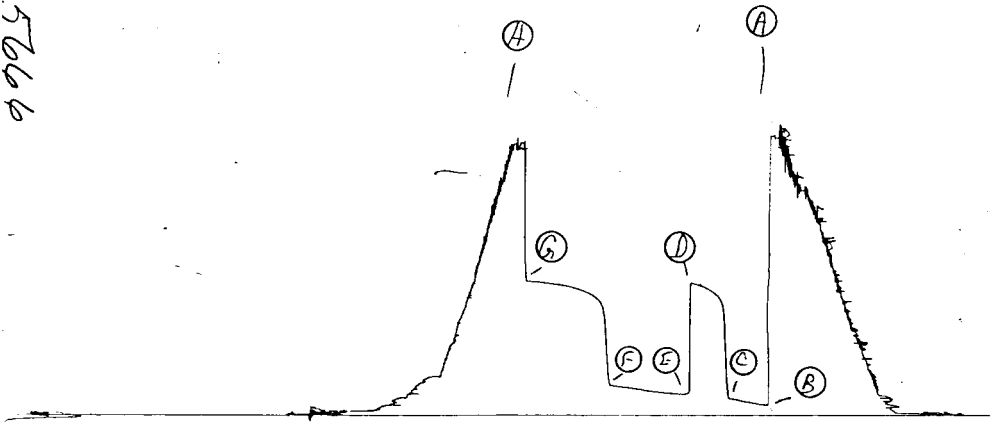
DST #2

TKT. 13838

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 13838

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 1532 GL Formation MISS Eff. Pay Ft.

District AUGUSTA Date 1-15-83 Customer Order No.

COMPANY NAME GLACIER PETROLEUM CO., Inc.

ADDRESS PO Box 577 EMPORIA, KS 66801

LEASE AND WELL NO. KANADY #1 COUNTY Butler STATE KS Sec. 1 Twp 28S Rge 7E

Mail Invoice To SAME #1 Kanady Co. Name No. Copies Requested 1

Mail Charts To SAME (EIGHT) Address CHUCK Kuhl 608 ONE MAIN PLACE No. Copies Requested 5 B

Formation Test No. 2 Interval Tested from 2811 ft. to 2830 ft. Total Depth 2830 ft.

Packer Depth 2811 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) 2822 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 2825 ft. Recorder Number 11019 Cap. 4500

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor GLACIER #1 Drill Collar Length 153 I. D. 2 1/4 in.

Mud Type CHEM Viscosity 40 Weight Pipe Length I. D. in.

Weight 9.7 Water Loss 11.4 cc. Drill Pipe Length 2663 I. D. 2.7 in.

Chlorides 1400 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number Anchor Length 19 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 3 1/2 IF in.

Blow: Strong thru out

Recovered 2100 ft. of GAS IN PIPE

Recovered 240 ft. of FREE OIL 37° SP. GRAV.

Recovered 155 ft. of HEAVY OIL CUT MUD 40°

Recovered ft. of

Recovered ft. of

Remarks: 6 Sample jars

Time On Location 9:30 P.M. Time Pick Up Tool 10:00 A.M. Time Off Location 6:15 P.M.

Time Set Packer(s) 12:00 P.M. Time Started Off Bottom 3:00 A.M. Maximum Temperature 115 °F

Initial Hydrostatic Pressure (A) 1435 P.S.I.

Initial Flow Period Minutes 30 (B) 50 P.S.I. to (C) 80 P.S.I.

Initial Closed In Period Minutes 30 (D) 700 P.S.I.

Final Flow Period Minutes 60 (E) 110 P.S.I. to (F) 155 P.S.I.

Final Closed In Period Minutes 60 (G) 700 P.S.I.

Final Hydrostatic Pressure (H) 1415 P.S.I. #5666

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Charles M. Kuhl Signature of Customer or his authorized representative

Western Representative Allen Edgington

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test (\$600), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charge (\$40), Insurance, and TOTAL (\$640).

WESTERN TESTING CO., INC.

Pressure Data

Date: 1-15-83 Test Ticket No. 13838  
 Recorder No. 516666 Capacity 3950 Location 2822 Ft.  
 Clock No. --- Elevation 1532 GL Well Temperature 115 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1448</u>	P.S.I.	<u>10:00 A</u>	<u>M</u>
B First Initial Flow Pressure	<u>58</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
C First Final Flow Pressure	<u>94</u>	P.S.I.	<u>30</u>	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>701</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>116</u>	P.S.I.	<u>60</u>	<u>60</u> Mins.
F Second Final Flow Pressure	<u>163</u>	P.S.I.		
G Final Closed-in Pressure	<u>711</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1418</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>20</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 0	<u>58</u>	0	<u>94</u>	0	<u>116</u>	0	<u>163</u>
P 2 5	<u>62</u>	3	<u>391</u>	5	<u>116</u>	3	<u>452</u>
P 3 10	<u>68</u>	6	<u>595</u>	10	<u>118</u>	6	<u>579</u>
P 4 15	<u>74</u>	9	<u>635</u>	15	<u>120</u>	9	<u>615</u>
P 5 20	<u>83</u>	12	<u>653</u>	20	<u>126</u>	12	<u>631</u>
P 6 25	<u>90</u>	15	<u>667</u>	25	<u>129</u>	15	<u>645</u>
P 7 30	<u>94</u>	18	<u>679</u>	30	<u>134</u>	18	<u>656</u>
P 8 35		21	<u>687</u>	35	<u>142</u>	21	<u>665</u>
P 9 40		24	<u>694</u>	40	<u>148</u>	24	<u>671</u>
P 10 45		27	<u>700</u>	45	<u>152</u>	27	<u>679</u>
P 11 50		30	<u>701</u>	50	<u>156</u>	30	<u>683</u>
P 12 55		33		55	<u>161</u>	33	<u>688</u>
P 13 60		36		60	<u>163</u>	36	<u>693</u>
P 14		39		65		39	<u>695</u>
P 15		42		70		42	<u>699</u>
P 16		45		75		45	<u>701</u>
P 17		48		80		48	<u>704</u>
P 18		51		85		51	<u>707</u>
P 19		54		90		54	<u>709</u>
P 20		57				57	<u>710</u>
		60				60	<u>711</u>