



WESTERN TESTING CO., INC.

FORMATION TESTING

#1 Runnymede-Stevens

TICKET NO. 5473

OK

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 1389 GL Formation Miss Eff. Pay Ft.

6060 District Augusta Date 7-18-84 Customer Order No. PO Box 577

COMPANY NAME Glacier Petroleum Co. Inc.

ADDRESS 825 Commercial Street Emporia, Ks. 66801

LEASE AND WELL NO. Runnymede-Stevens #1 COUNTY HP STATE KS Sec 2 Twp 31S Rge 6W

Mail Invoice To Same No. Copies Requested 1

Co. Name CHAS. KUHL Address Same No. Copies Requested 5

Mail Charts To ONE COPY TO: 608 ONE MAIN PLACE, WICHITA, KS 67202 Address

Formation Test No. 1 Interval Tested From 4198 ft. to 4220 ft. Total Depth 4220 ft.

Packer Depth 4193 ft. Size 6.75 in. Packer Depth = ft. Size in.

Packer Depth 4198 ft. Size 6.75 in. Packer Depth = ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4213 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 4217 ft. Recorder Number 13265 Cap. 3975

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Glacier #2 Drill Collar Length 325 I. D. 2.25 in.

Mud Type Starch Viscosity 100 Weight 9.7 Water Loss 40 cc. Drill Pipe Length 3846 I. D. 3.340 in.

Chlorides 60,000 P.P.M. Test Tool Length 27 ft. Tool Size in.

Jars: Make WTC Serial Number 404 Anchor Length 22 ft. Size in.

Did Well Flow? Yes Reversed Out No Surface Choke Size 1.75 in. Bottom Choke Size in.

Main Hole Size 7 7/8 in. Tool Joint Size FH in.

Blow: Strong throught Gas to Surface 3 min See gas Street

Recovered 30 ft. of 75.1 MCF per day

Recovered 120 ft. of Drill mud, slight gas cut, show of oil

Recovered 120 ft. of oil + gas cut mud 30% oil

Recovered ft. of Gas cut Frothy oil 50% oil

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: Extra Copy with company man

Time On Location 5:30 A.M. Time Pick Up Tool 9:30 A.M. Time Off Location 6:30 P.M.

Time Set Packer(s) 11:45 A.M. Time Started Off Bottom 2:45 P.M. Maximum Temperature 136 F

Initial Hydrostatic Pressure (A) 2185 P.S.I.

Initial Flow Period Minutes 45 (B) 110 P.S.I. to (C) 110 P.S.I.

Initial Closed In Period Minutes 45 (D) 1605 P.S.I.

Final Flow Period Minutes 30 (E) 120 P.S.I. to (F) 120 P.S.I.

Final Closed In Period Minutes 60 (G) 1605 P.S.I.

Final Hydrostatic Pressure (H) 2185 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 Price. Items include Open Hole Test (\$595), Misrun, Straddle Test, Jars (\$300), Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance (\$50), and Telecopier. TOTAL is listed at the bottom.



No 3444

GAS FLOW REPORT

Date 7-18-84 Ticket 5-473 Company Glacier Petroleum Co.
Well Name and No. Rumynade Stevens #1 Dst No. 1 Interval Tested 4198-4220
County HP State KS Sec. 2 Twp. 31S Rg. 6W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
<u>5</u>					<u>Gas to Surface</u>
<u>25</u>	<u>28</u>	<u>3/4</u>			<u>75.1 MCFPD</u>
<u>30</u>	<u>28</u>	<u>"</u>			<u>"</u>
<u>35</u>	<u>"</u>	<u>"</u>			<u>"</u>
<u>40</u>	<u>"</u>	<u>"</u>			<u>"</u>
<u>45</u>	<u>"</u>	<u>"</u>			<u>"</u>

SECOND FLOW					
<u>55</u>	<u>20</u>	<u>3/4</u>			<u>75.1 MCFPD</u>
<u>65</u>	<u>"</u>	<u>"</u>			<u>"</u>
<u>75</u>	<u>"</u>	<u>"</u>			<u>"</u>

GAS BOTTLE

Serial No. 83 Date Bottle Filled 7-18-84 Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Glacier Petroleum
Authorized by Charles M. Kuhl

WESTERN TESTING CO., INC.

Pressure Data

Date: 7/18/84 Test Ticket No. 5473
 Recorder No. 56000 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2174</u>	P.S.I.		M	
B First Initial Flow Pressure	<u>105</u>	P.S.I.	First Flow Pressure	_____ Mins.	_____ Mins.
C First Final Flow Pressure	<u>110</u>	P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Mins.
D Initial Closed-in Pressure	<u>1400</u>	P.S.I.	Second Flow Pressure	_____ Mins.	_____ Mins.
E Second Initial Flow Pressure	<u>112</u>	P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Mins.
F Second Final Flow Pressure	<u>118</u>	P.S.I.			
G Final Closed-in Pressure	<u>1595</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2142</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 13 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 16 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

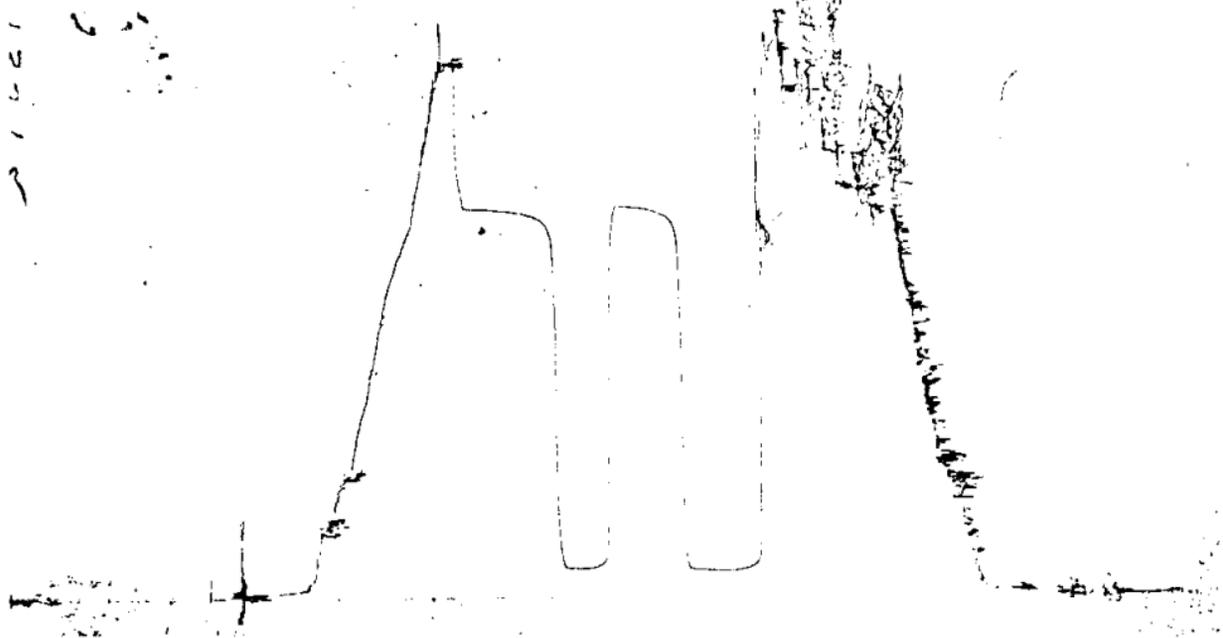
Second Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 21 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 0	<u>105</u>	0	<u>110</u>	0	<u>112</u>	0	<u>118</u>
P 2 5		3	<u>1044</u>	5		3	<u>1388</u>
P 3 10		6	<u>1536</u>	10		6	<u>1535</u>
P 4 15		9	<u>1564</u>	15	<u>112</u>	9	<u>1554</u>
P 5 20		12	<u>1576</u>	20	<u>114</u>	12	<u>1564</u>
P 6 25		15	<u>1582</u>	25	<u>116</u>	15	<u>1570</u>
P 7 20	<u>105</u>	18	<u>1585</u>	30	<u>118</u>	18	<u>1573</u>
P 8 35	<u>105</u>	21	<u>1588</u>	35		21	<u>1576</u>
P 9 40	<u>105</u>	24	<u>1590</u>	40		24	<u>1578</u>
P10 45	<u>106</u>	27	<u>1592</u>	45		27	<u>1580</u>
P11 50	<u>107</u>	30	<u>1594</u>	50		30	<u>1582</u>
P12 55	<u>108</u>	33	<u>1596</u>	55		33	<u>1584</u>
P13 60	<u>110</u>	36	<u>1597</u>	60		36	<u>1586</u>
P14		39	<u>1598</u>	65		39	<u>1588</u>
P15		42	<u>1599</u>	70		42	<u>1589</u>
P16		45	<u>1600</u>	75		45	<u>1590</u>
P17		48		80		48	<u>1591</u>
P18		51		85		51	<u>1592</u>
P19		54		90		54	<u>1593</u>
P20		57				57	<u>1594</u>
		60				60	<u>1595</u>

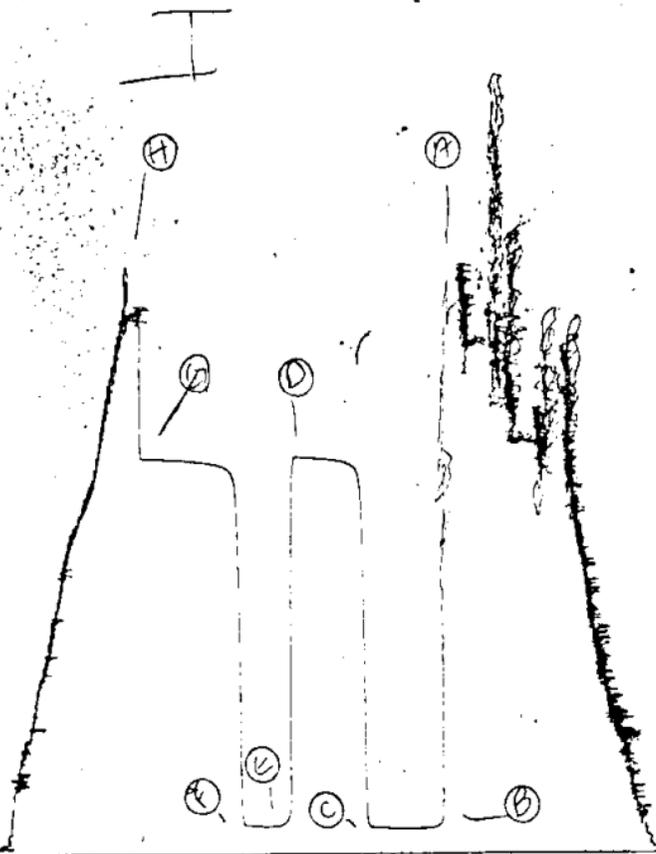
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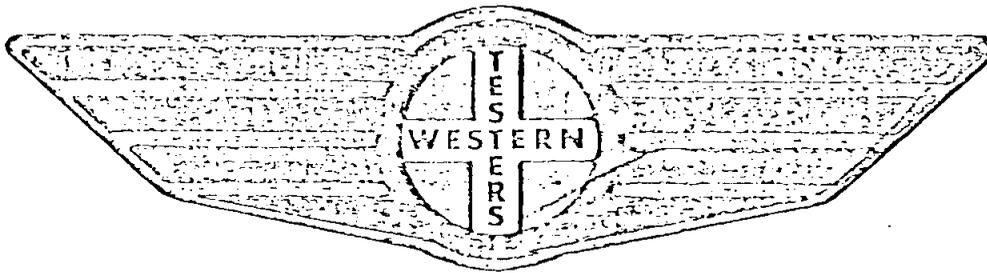
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____
GLACIER PETROLEUM CO., INC. Lease and Well No. _____
#1 RUNNYMEDE-STEVENS Sec. 2 Twp. 31S Rge. 6W Test No. 1 Date 7/18/8

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 7/18/84 TICKET #5473
CUSTOMER: GLACIER PETROLEUM COMPANY INC. LEASE: RUNNYMEDE-STEVENSON
WELL: 1 TEST: 1 GEOLOGIST: KUHL
ELEVATION (KB): 1394 FORMATION: MISSISSIPPI
SECTION: 2 TOWNSHIP: 31S
RANGE: 6W COUNTY: HARPER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 4198 FT TO: 4220 FT TOTAL DEPTH: 4220 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4193 FT SIZE: 6 3/4 IN PACKER DEPTH: 4198 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: GLACIER
MUD TYPE: STARCH VISCOSITY: 100
WEIGHT: 9.7 WATER LOSS (CC): 4.0
CHLORIDES (P.P.M.): 60000
JARS - MAKE: W.T.C. SERIAL NUMBER: 404
DID WELL FLOW? YES REVERSED OUT? NO
DRILL COLLAR LENGTH: 325 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3846 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 27 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 22 FT SIZE: 5 1/2 O.D. IN
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 F.H. IN

BLOW: STRONG BLOW THROUGHOUT TEST. GAS TO SURFACE IN
5 MINUTES. SEE ATTACHED GAS SHEET.

RECOVERED: 30 FT OF: DRILL MUD; SLIGHTLY GAS CUT; SHOW OF OIL
RECOVERED: 120 FT OF: OIL & GAS CUT MUD; 30% OIL
RECOVERED: 120 FT OF: GAS CUT FROGGY OIL; 50% OIL
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 11:45 A.M. TIME STARTED OFF BOTTOM: 2:45 P.M.
WELL TEMPERATURE: 136 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2174 PSI
INITIAL FLOW PERIOD MIN: 60 (B) 105 PSI TO (C) 110 PSI
INITIAL CLOSED IN PERIOD MIN: 45 (D) 1600 PSI
FINAL FLOW PERIOD MIN: 30 (E) 112 PSI TO (F) 118 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1595 PSI
FINAL HYDROSTATIC PRESSURE (H) 2162 PSI

WESTERN TESTING COMPANY INC.
GAS FLOW REPORT

DATE: 7/18/84
CUSTOMER: GLACIER PETROLEUM COMPANY INC.
WELL: 1 TEST: 1
ELEVATION (KB): 1394 FORMATION: MISSISSIPPI
SECTION: 2 TOWNSHIP: 31S
RANGE: 6W COUNTY: HARPER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

TICKET #5473

LEASE: RUNNYMEDE-STEVENS

GEOLOGIST: KUHL

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

25	MERLA	3/4"	28" WTR	75100 CFPD
30		"	28" WTR	75100 " "
35		"	28" WTR	75100 " "
40		"	28" WTR	75100 " "
45		"	28" WTR	75100 " "

SECOND FLOW

55	MERLA	3/4"	28" WTR	75100 CFPD
65		"	28" WTR	75100 " "
75		"	28" WTR	75100 " "

GAS BOTTLE SN #: 83
DATE BOTTLE FILLED: 7/18/84
DATE TO BE INVOICED: