



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 3673

P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Elevation 1321 Kb Formation Miss Eff. Pay Ft.

District Augusta Date 5/22/80 Customer Order No.

COMPANY NAME Barge Oil Co. Inc

ADDRESS 240 Page Court, 220 W. Anglin

LEASE AND WELL NO. Moore #1 COUNTY Cowley STATE Ka Sec 26 Twp 32 Rge 5E

Mail Invoice To Same Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3090 ft. to 3110 ft. Total Depth 3110 ft.

Packer Depth 3090 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3085 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3095 ft.

Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 3099 ft.

Recorder Number 2605 Cap. 4150

Below Straddle Recorder Depth ft.

Recorder Number Cap.

Drilling Contractor Longbottom #2

Drill Collar Length 338 I. D. in.

Mud Type Chem Viscosity 49

Weight Pipe Length I. D. in.

Weight 10.2 Water Loss 15.2 cc.

Drill Pipe Length 2731 I. D. in.

Chlorides 1200 P.P.M.

Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make MO Serial Number

Anchor Length 20 ft. Size 5 1/2 in.

Did Well Flow? 100 Reversed Out

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 x H in.

Blow: Low flow building during first flow period, low flow decreasing second flow

Recovered 474 ft. of gas in pipe

Recovered 4 ft. of drill pipe mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED
MAY 23 1980

On location 4 PM Pickup tools 6 PM Job completed 1 AM.

Time Set Packer(s) 7:45 A.M. Time Started Off Bottom 11:15 A.M. Maximum Temperature 118°

Initial Hydrostatic Pressure (A) 1640 P.S.I.

Initial Flow Period 30 Minutes (B) 31 P.S.I. to (C) 31 P.S.I.

Initial Closed In Period 30 Minutes (D) 126 P.S.I.

Final Flow Period Lead Minutes 60 (E) 31 P.S.I. to (F) 31 P.S.I.

Final Closed In Period 2605 Minutes 90 (G) 850 P.S.I.

Final Hydrostatic Pressure (H) 1640 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 Robert Olsen
Signature of Customer or his authorized representative

Western Representative Kenny Kirkendall

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
41 Mileage x .75 \$ 30.75
Fluid Sampler \$
Extra Charts \$

TOTAL \$ 580.75

WESTERN TESTING CO., INC.

Pressure Data

Date 5-22-80 Test Ticket No. 3673
 Recorder No. 2605 Capacity 4150 Location 3099 Ft.
 Clock No. _____ Elevation 1321 K. B Well Temperature 118 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1631 P.S.I. Open Tool 7:45 P.M.
 B First Initial Flow Pressure 44 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 25 P.S.I. Initial Closed-in Pressure 30 Mins. 33 Mins.
 D Initial Closed-in Pressure 143 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 54 P.S.I. Final Closed-in Pressure 90 Mins. 87 Mins.
 F Second Final Flow Pressure 18 P.S.I.
 G Final Closed-in Pressure 852 P.S.I.
 H Final Hydrostatic Mud 1602 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>29</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>44</u>	0	<u>25</u>	0	<u>54</u>	0	<u>18</u>
P 2 5	<u>27</u>	3	<u>25</u>	5	<u>28</u>	3	<u>35</u>
P 3 10	<u>25</u>	6	<u>27</u>	10	<u>23</u>	6	<u>86</u>
P 4 15	<u>↑</u>	9	<u>35</u>	15	<u>22</u>	9	<u>135</u>
P 5 20	<u>↓</u>	12	<u>48</u>	20	<u>21</u>	12	<u>182</u>
P 6 25	<u>↓</u>	15	<u>65</u>	25	<u>20</u>	15	<u>224</u>
P 7 30	<u>25</u>	18	<u>80</u>	30	<u>19</u>	18	<u>260</u>
P 8 35		21	<u>95</u>	35	<u>18</u>	21	<u>300</u>
P 9 40		24	<u>109</u>	40	<u>↑</u>	24	<u>347</u>
P 10 45		27	<u>122</u>	45	<u>↓</u>	27	<u>385</u>
P 11 50		30	<u>135</u>	50	<u>↓</u>	30	<u>425</u>
P 12 55		33	<u>143</u>	55	<u>↓</u>	33	<u>455</u>
P 13 60		36		60	<u>18</u>	36	<u>487</u>
P 14		39		65		39	<u>518</u>
P 15		42		70		42	<u>549</u>
P 16		45		75		45	<u>578</u>
P 17		48		80		48	<u>605</u>
P 18		51		85		51	<u>630</u>
P 19		54		90		54	<u>661</u>
P 20		57				57	<u>684</u>
		60				60	<u>707</u>

Point 5

WESTERN TESTING CO., INC.

Pressure Data

Test Ticket No. 3673

Recorder No. _____ Capacity _____ Location _____
 Casing No. _____ Elevation _____ Well Temperature _____
 Point _____ Pressure _____ Time Given _____ Time Computed _____
 Initial Hydrostatic Mud _____ P.S.I. Open Tool _____ M _____
 First Initial Flow Pressure _____ P.S.I. First Flow Pressure _____ Mins. _____ Mi
 First Final Flow Pressure _____ P.S.I. Initial Closed-in Pressure _____ Mins. _____ Mi
 Initial Closed-in Pressure _____ P.S.I. Second Flow Pressure _____ Mins. _____ Mi
 Second Initial Flow Pressure _____ P.S.I. Final Closed-in Pressure _____ Mins. _____ Mi
 Second Final Flow Pressure _____ P.S.I.
 Final Closed-in Pressure _____ P.S.I.
 Final Hydrostatic Mud _____ P.S.I.

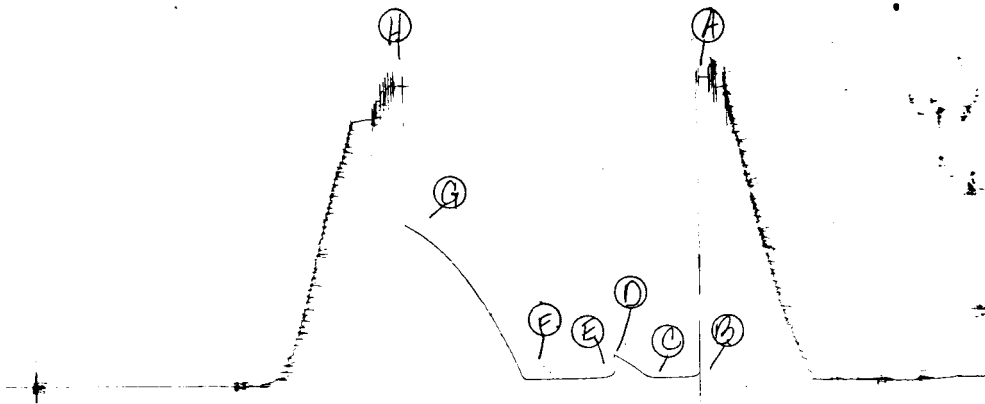
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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	Press.	Point	Press.	Point	Press.	Point	Press.
Ins.		Minutes		Minutes		Minutes	
1		63				63	727
2		66				66	746
3		69				69	764
4		72				72	781
5		75				75	800
6		78				78	814
7		81				81	829
8		84				84	841
9		87				87	852
10		90				90	
11		93				93	
12		96				96	
13		99				99	
14		102				102	
15		105				105	
16		108				108	
17		111				111	
18		114				114	
19		117				117	
20		120				120	

3673

TK# 3673

0.



Company Range Oil Company, Inc. Lease & Well No. Moon #1
 Elevation 1321 Kelly Bushing Mississippi Formation Mississippi Effective Pay - Ft. Ticket No. 3673
 Date 5/22/80 Sec. 26 Twp. 32S Range 5E County Cowley State Kansas
 Test Approved by Robert Olsen Western Representative Kenny Kirkendall
 Formation Test No. 1 Interval Tested from 3090 ft. to 3110 ft. Total Depth 3110 ft.
 Packer Depth 3090 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3085 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3095 ft. Recorder Number 5666 Cap. 3950
 Bottom Recorder Depth (Outside) 3099 ft. Recorder Number 2605* Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Range Drilling Rig #2 Drill Collar Length 338 I. D. - in.
 Mud Type chemical Viscosity 49 Weight Pipe Length - I. D. - in.
 Weight 10.2 Water Loss 15.2 cc. Drill Pipe Length 2731 I. D. - in.
 Chlorides 1,200 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 20 ft. Size 5 1/2 in.
 Did Well Flow? No Reversed Out - 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 XH in.

Blow: Fair blow buillding during first flow period; fair blow decreasing second flow.

Recovered 474 ft. of gas in pipe
 Recovered 4 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

READ RECORDER #2605

Time Set Packer(s) 7:45 —A.M. P.M. Time Started Off Bottom 11:15 —A.M. P.M. Maximum Temperature 118°
 Initial Hydrostatic Pressure (A) 1631 P.S.I.
 Initial Flow Period Minutes 30 (B) 44 P.S.I. to (C) 25 P.S.I.
 Initial Closed In Period Minutes 33 (D) 143 P.S.I.
 Final Flow Period Minutes 60 (E) 54 P.S.I. to (F) 18 P.S.I.
 Final Closed In Period Minutes 87 (G) 852 P.S.I.
 Final Hydrostatic Pressure (H) 1602 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 5/22/80 Recorder No. 2605 Capacity 4150 Test Ticket No. 3673
 Clock No. - Elevation 1321 Kelly Bushing Location 3099 Ft. 118 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	1631 P.S.I.	7:45P	M
B First Initial Flow Pressure	44 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	25 P.S.I.	30 Mins.	33 Mins.
D Initial Closed-in Pressure	143 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	54 P.S.I.	90 Mins.	87 Mins.
F Second Final Flow Pressure	18 P.S.I.		
G Final Closed-in Pressure	852 P.S.I.		
H Final Hydrostatic Mud	1602 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>12</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>29</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	44	0	25	0	54	0	18
P 2	5	27	3	25	5	28	3	35
P 3	10	25	6	27	10	23	6	86
P 4	15	25	9	35	15	22	9	135
P 5	20	25	12	48	20	21	12	182
P 6	25	25	15	65	25	20	15	224
P 7	30	25	18	80	30	19	18	260
P 8			21	95	35	18	21	300
P 9			24	109	40	18	24	347
P10			27	122	45	18	27	385
P11			30	135	50	18	30	425
P12			33	143	55	18	33	455
P13					60	18	36	487
P14							39	518
P15							42	549
P16							45	578
P17							48	605
P18							51	630
P19							54	661
P20							57	684
							60	707

WESTERN TESTING CO., INC.

Pressure Data.

Date 5/22/80 Test Ticket No. 3673
 Recorder No. 2605 Capacity 4150 Location 3099 Ft.
 Clock No. - Elevation 1321 Kelly Bushing Well Temperature 118 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1631 P.S.I. Open Tool 7:45P M.
 B First Initial Flow Pressure 44 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 25 P.S.I. Initial Closed-in Pressure 30 Mins. 33 Mins.
 D Initial Closed-in Pressure 143 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 54 P.S.I. Final Closed-in Pressure 90 Mins. 87 Mins.
 F Second Final Flow Pressure 18 P.S.I.
 G Final Closed-in Pressure 852 P.S.I.
 H Final Hydrostatic Mud 1602 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>29</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						63	727
P 2						66	746
P 3						69	764
P 4						72	781
P 5						75	800
P 6						78	814
P 7						81	824
P 8						84	841
P 9						87	852
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							