WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 7870 OK

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

Elevation 1147 Kb Formation Miss Eff. Pay Ft.

District Augusta Date 7-22-81 Customer Order No.

COMPANY NAME BOCI (Forge Oil Company, Inc.)

ADDRESS 240 Page Court-220 West Douglas, Wichita Ks 67202

LEASE AND WELL NO. Tackett #1 COUNTY Sumner STATE Ks Sec. 30 Twp. 33S Rge. 2E

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 3408 ft. to 3419 ft. Total Depth 3419 ft.

Packer Depth 3408 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 3403 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3413 ft. Recorder Number 2605 Cap. 4100

Bottom Recorder Depth (Outside) 3418 ft. Recorder Number 10979 Cap. 4150

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

Drilling Contractor Co tools #3 Drill Collar Length 240 I. D. in.

Mud Type Chem Viscosity 43 Weight Pipe Length — I. D. in.

Weight 9.8 Water Loss 16 cc. Drill Pipe Length 3150 I. D. in.

Chlorides 8000 P.P.M. Test Tool Length 18 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number Anchor Length 11 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 4 1/2 XH in.

Blow: Weak 3" Decreasing Died in 20 mins. No first flow Period surge as tool opened No blow on final flow

Recovered 80 ft. of Drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Slid tool 6'

RECEIVED JUL 24 1980

Time On Location 5:45 A.M. P.M. Time Pick Up Tool 7:00 A.M. P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 9:00 A.M. P.M. Time Started Off Bottom A.M. P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure			(A)	1702	P.S.I.	
Initial Flow Period	Minutes	30	(B)	42	P.S.I. to (C)	52 P.S.I.
Initial Closed In Period	Minutes	30	(D)	1037	P.S.I.	
Final Flow Period	Minutes	30	(E)	52	P.S.I. to (F)	59 P.S.I.
Final Closed In Period	Minutes	45	(G)	1068	P.S.I.	
Final Hydrostatic Pressure			(H)	1702	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 Stephen D. Wade
Signature of Customer or his authorized representative

Western Representative Kenny Kirkendall

FIELD INVOICE

Open Hole Test	$ 625.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Milcap 45	$ 33.75 ?
Fluid Sampler	$
Extra Charts	$
Insurance	$
TOTAL	$ 658.75

WESTERN TESTING CO., INC.
Pressure Data

Date 7-22 | Test Ticket No. 7870

Recorder No. 2605 | Capacity 4100 | Location 3413 F

Clock No. — | Elevation 1147 KB | Well Temperature 117 °

Point		Pressure	
A	Initial Hydrostatic Mud	1724	P.S.I.
B	First Initial Flow Pressure	59	P.S.I.
C	First Final Flow Pressure	59	P.S.I.
D	Initial Closed-in Pressure	1043	P.S.I.
E	Second Initial Flow Pressure	63	P.S.I.
F	Second Final Flow Pressure	63	P.S.I.
G	Final Closed-in Pressure	1079	P.S.I.
H	Final Hydrostatic Mud	1686	P.S.I.

	Time Given	Time Computed
Open Tool	9:00 AM	
First Flow Pressure	30 Mins.	30 Mins
Initial Closed-in Pressure	30 Mins.	30 Mins
Second Flow Pressure	30 Mins.	30 Mins
Final Closed-in Pressure	45 Mins.	48 Mins

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	59
P 2 5	
P 3 10	
P 4 15	
P 5 20	
P 6 25	
P 7 30	59
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	59
3	224
6	434
9	606
12	728
15	815
18	869
21	927
24	969
27	1008
30	1043
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	63
5	
10	
15	
20	
25	
30	63
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	63
3	330
6	510
9	622
12	715
15	780
18	836
21	881
24	913
27	948
30	971
33	996
36	1019
39	1035
42	1048
45	1062
48	1079
51	
54	
57	
60	

2605

Tkt # 7870

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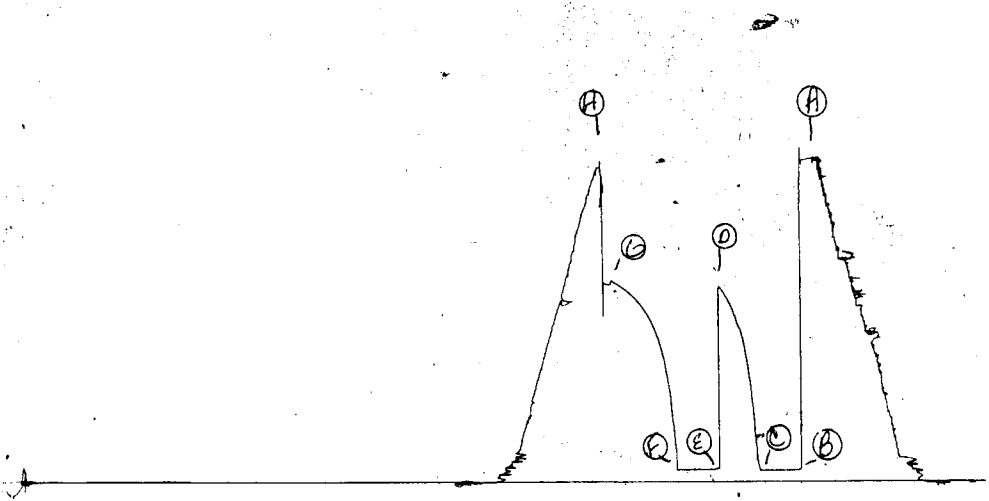

Company Range Oil Company, Inc. Lease & Well No. Hackett #1

Elevation 1147 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 7870

Date 7/22/81 Sec. 30 Twp. 33S Range 2E County Sumner State Kansas

Test Approved by Stephen D Wade Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 3408 ft. to 3419 ft. Total Depth 3419 ft.

Packer Depth 3408 ft. Size 6 3/4 Packer Depth - ft. Size - in.

Packer Depth 3403 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3413 ft. Recorder Number 2605 Cap. 4100

Bottom Recorder Depth (Outside) 3418 ft. Recorder Number 10979 Cap. 4150

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

Drilling Contractor Range Oil Company Rig #3 Drill Collar Length 240 I. D. - in.

Mud Type Chemical Viscosity 43 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 16.0 cc. Drill Pipe Length 3150 I. D. - in.

Chlorides 8000 P.P.M. Test Tool Length 18 ft. Tool Size 5½ in.

Jars: Make - Serial Number - Anchor Length 11 ft. Size 5½ 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 4½XH in.

Blow: Weak 3 inch decreasing died in 20 minutes initial flow period. Surge as tool opened
No blow on final flow period.

Recovered 80 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:
Slid tool 6 ft.

Time Set Packer(s) 9:00 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom - A.M. P.M. Maximum Temperature 117

Initial Hydrostatic Pressure			(A)	1724	P.S.I.	
Initial Flow Period	Minutes	30	(B)	59	P.S.I. to (C)	59 P.S.I.
Initial Closed In Period	Minutes	30	(D)	1043	P.S.I.	
Final Flow Period	Minutes	30	(E)	63	P.S.I. to (F)	63 P.S.I.
Final Closed In Period	Minutes	48	(G)	1079	P.S.I.	
Final Hydrostatic Pressure			(H)	1686	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 7/22/81

Test Ticket No. 7870

Recorder No. 2605 Capacity 4100 Location 3413 Ft.

Clock No. - Elevation 1147 Kelly Bushing Well Temperature 117 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1724	P.S.I.
B	First Initial Flow Pressure	59	P.S.I.
C	First Final Flow Pressure	59	P.S.I.
D	Initial Closed-in Pressure	1043	P.S.I.
E	Second Initial Flow Pressure	63	P.S.I.
F	Second Final Flow Pressure	63	P.S.I.
G	Final Closed-in Pressure	1079	P.S.I.
H	Final Hydrostatic Mud	1686	P.S.I.

	Time Given	Time Computed
Open Tool	9:00A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	45 Mins.	48 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	59
P 2	5	59
P 3	10	59
P 4	15	59
P 5	20	59
P 6	25	59
P 7	30	59
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	59
3	224
6	434
9	606
12	728
15	815
18	869
21	927
24	969
27	1008
30	1043

Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	63
5	63
10	63
15	63
20	63
25	63
30	63

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

Point Minutes	Press.
0	63
3	330
6	510
9	622
12	715
15	780
18	836
21	881
24	913
27	948
30	971
33	996
36	1019
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48	1079