WESTERN TESTING CO., INC.

FORMATION TESTING

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

1443 Kelly Bushing — TICKET No. 6021

Elevation KB 1443 Formation Conglomerate (Conglomerate) Eff. Pay ____ Ft.

District Augusta Date 7-6-80 Customer Order No. ____

COMPANY NAME Range oil Company Inc.

ADDRESS 240 Page Court 220 W. Douglas Wichita, Ks. 67202

LEASE AND WELL NO. Ramsey Clevenger #6 COUNTY Butler STATE Ks Sec. 9 Twp. 24 S Rge. 5E

Mail Invoice To #6 Ramsey-Clevenger "A" — Co. Name ____ Address ____ No. Copies Requested 1

Mail Charts To Same — Address ____ No. Copies Requested 5

Formation Test No. 1 Interval Tested from 2500 ft. to 2521 ft. Total Depth 2521 ft.

Packer Depth 2495 ft. Size 6 3/4 in. — Packer Depth — ft. Size — in.

Packer Depth 2500 ft. Size 6 3/4 in. — Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 2506 ft. — Recorder Number 1558 Cap. 4200

Bottom Recorder Depth (Outside) 2509 ft. — Recorder Number 1559 Cap. 4200

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

Drilling Contractor Range oil Co.

Mud Type Chemical Viscosity 43 — Drill Collar Length 120 I. D. 3 3/4 in.

Weight 9.6 Water Loss 16.8 cc. — Weight Pipe Length — I. D. — in.

Chlorides 2200 P.P.M. — Drill Pipe Length 2359 I. D. 3.8 in.

Jars: Make NO Serial Number NO — Test Tool Length 42 ft. Tool Size 5 1/2 in.

Did Well Flow? No Reversed Out — Anchor Length 21 ft. Size 5 1/2 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 XH in.

Blow: Good steady throughout Test

Recovered 520 ft. of Gas in pipe

Recovered 620 ft. of Free oil

Recovered 72 ft. of 20% mud 40% oil cut mud 40% gassy oil cut mud

Recovered 50 ft. of 50% mud 15% oil cut mud 35% Gassy oil cut mud

Recovered ____ ft. of

Remarks: 43 Gravity 96° not Corr. Corrected

On location 4:30 on bank 7:00 PM tool made up started in 8:00 PM 7-5-80 ol. 5:AM

Time Set Packer(s) 9:20 P.M. 7-5-80 Time Started Off Bottom 12:20 A.M. 7-6-80 Maximum Temperature ____

Initial Hydrostatic Pressure		(A) 1378-1372	P.S.I.
Initial Flow Period	Minutes 30	(B) 53-50 P.S.I.	to (C) 136-130 P.S.I.
Initial Closed In Period	Minutes 30	(D) 428 P.S.I.	392
Final Flow Period	Minutes 60	(E) 177-195 P.S.I.	to (F) 261-265 P.S.I.
Final Closed In Period	Minutes 60	(G) 386-381 P.S.I.	
Final Hydrostatic Pressure		(H) 1259 P.S.I.	1267

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. Stephen M. Reidler

Test Approved By Stephen M. Reidler
Signature of Customer or his authorized representative

Western Representative Fred G. Klaus
Fred G. Klaus

RECEIVED JUL 7 - 1980

FIELD INVOICE

Open Hole Test	$ 550.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage 30 X 75¢	$ 22.50
Fluid Sampler	$
Extra Charts	$
TOTAL	$ 572.50

WESTERN TESTING CO., INC.
Pressure Data

Date 7-6-80 Test Ticket No. 6021

Recorder No. 1558 Capacity 4200 Location 2506 F

Clock No. Elevation 1443 K.B Well Temperature °

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1372 P.S.I.	Open Tool	9:20P M	
B	First Initial Flow Pressure	50 P.S.I.	First Flow Pressure	30 Mins.	30 Mins
C	First Final Flow Pressure	130 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins
D	Initial Closed-in Pressure	392 P.S.I.	Second Flow Pressure	60 Mins.	66 Mins.
E	Second Initial Flow Pressure	195 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	265 P.S.I.			
G	Final Closed-in Pressure	381 P.S.I.			
H	Final Hydrostatic Mud	1267 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	50
P 2 5	59
P 3 10	69
P 4 15	86
P 5 20	103
P 6 25	118
P 7 30	130
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	130
3	299
6	322
9	341
12	352
15	306
18	367
21	374
24	379
27	383
30	392
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	195
5	197
10	199
15	202
20	207
25	215
30	221
35	229
40	236
45	244
50	253
55	260
60	265
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

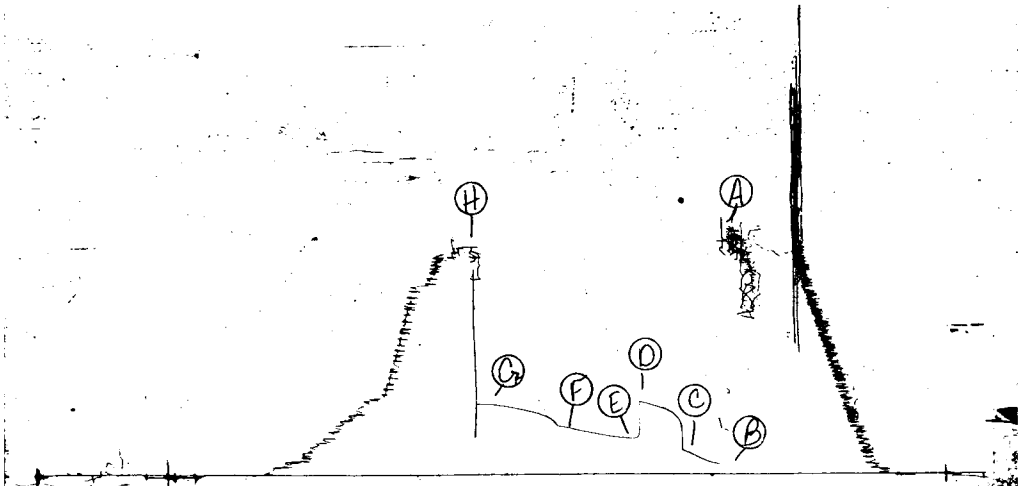
Point Minutes	Press.
0	265
3	295
6	310
9	318
12	326
15	335
18	341
21	345
24	351
27	356
30	360
33	364
36	369
39	374
42	376
45	378
48	380
51	381
54	381
57	381
60	381

WTC - 4

1558

Tk # 6021

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8551

Company: Range Oil Company, Inc. Lease & Well No.: Ramsey Clevenger "A"#6

Elevation: 1443 Kelly Bushing Formation: Conglomerate Effective Pay: ----- Ft. Ticket No.: 6021

Date: 7/6/80 Sec. 9 Twp. 24S Range 5E County: Butler State: Kansas

Test Approved by: Stephen M. Kreidler Western Representative: Fred G.Klaus

Formation Test No. 1 Interval Tested from 2500 ft. to 2521 ft. Total Depth 2521 ft.

Packer Depth 2495 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2500 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2506 ft. Recorder Number 1558 Cap. 4200

Bottom Recorder Depth (Outside) 2509 ft. Recorder Number 1559 Cap. 4200

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

Drilling Contractor: Range Drilling Co. Drill Collar Length 120 I. D. 3 3/4 in.

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

Weight 9.6 Water Loss 16.8 cc. Drill Pipe Length 2359 I. D. 3.8 in.

Chlorides 2,200 P.P.M. Test Tool Length 42 ft. Tool Size 5½ in.

Jars: Make No Serial Number No Anchor Length 21 ft. Size 5½ 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 4½XH in.

Blow: Good steady blow throughout test.

Recovered 520 ft. of gas in pipe

Recovered 620 ft. of free oil

Recovered 72 ft. of 20% mud;40% oil cut mud;40% gassy oil cut mud

Recovered 50 ~~A.M.~~ P.M. ft. of 50% mud;15% oil cut mud 35% gassy oil cut mud

Recovered ft. of

Remarks: 43 gravity 96° not corrected

Time Set Packer(s) 9:20 ~~A.M.~~ P.M. Time Started Off Bottom 12:20 ~~A.M.~~ P.M. Maximum Temperature ?

Initial Hydrostatic Pressure (A) 1372 P.S.I.

Initial Flow Period Minutes 30 (B) 50 P.S.I. to (C) 130 P.S.I.

Initial Closed In Period Minutes 30 (D) 392 P.S.I.

Final Flow Period Minutes 60 (E) 195 P.S.I. to (F) 265 P.S.I.

Final Closed In Period Minutes 60 (G) 381 P.S.I.

Final Hydrostatic Pressure (H) 1267 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 7-6-80 Test Ticket No. 6021

Recorder No. 1558 Capacity 4200 Location 2506 Ft.

Clock No. -- Elevation 1443 Kelly Bushing Well Temperature -- °F

Point		Pressure	
A	Initial Hydrostatic Mud	1372	P.S.I.
B	First Initial Flow Pressure	50	P.S.I.
C	First Final Flow Pressure	130	P.S.I.
D	Initial Closed-in Pressure	392	P.S.I.
E	Second Initial Flow Pressure	195	P.S.I.
F	Second Final Flow Pressure	265	P.S.I.
G	Final Closed-in Pressure	381	P.S.I.
H	Final Hydrostatic Mud	1267	P.S.I.

	Time Given	Time Computed
Open Tool	9:20 P.M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	60 Mins.	60 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	50
P 2 5	59
P 3 10	69
P 4 15	86
P 5 20	103
P 6 25	118
P 7 30	130
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	130
3	299
6	322
9	341
12	352
15	306
18	367
21	374
24	379
27	383
30	392

Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	195
5	197
10	199
15	202
20	207
25	215
30	221
35	229
40	236
45	244
50	253
55	260
60	265

Final Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	265
3	295
6	310
9	318
12	326
15	335
18	341
21	345
24	351
27	356
30	360
33	364
36	369
39	374
42	376
45	378
48	380
51	381
54	381
57	381
60	381

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 6022

Elevation KB 1443 Formation Miss. Eff. Pay Ft.

District Augusta Date 7-6-80 Customer Order No.

COMPANY NAME Range oil Co. Inc.

ADDRESS 240 Tyler Court 220 West Douglas, Wichita, KS 67202

LEASE AND WELL NO. Ramsey & Clevenger #6 COUNTY Barber STATE Kansas Sec. 9 Twp. 34S 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. 2 Interval Tested from 2525 ft. to 2541 ft. Total Depth 2541 ft.

Packer Depth 2520 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 2525 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 2531 ft. Recorder Number 1558 Cap. 4200 PSI

Bottom Recorder Depth (Outside) 2534 ft. Recorder Number 1559 Cap. 4200 PSI

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

Drilling Contractor Range oil Co

Mud Type Chem. Viscosity 42

Weight 9.7 Water Loss 15.4 cc.

Chlorides 2100 P.P.M.

Jars: Make NO Serial Number —

Did Well Flow? NO Reversed Out yes

Drill Collar Length 120 I. D. 3 3/4 in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 2385 I. D. 3.8 in.

Test Tool Length 36 ft. Tool Size 5 1/2 in.

Anchor Length 16 ft. Size 5 1/2 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 XH in.

Blow: Strong + Steady

Recovered 180 ft. of Gas in pipe

Recovered 1120 ft. of Free oil

Recovered 246 ft. of Heavy mud 60% mud 16% oil Cut 25% Heavy oil Cut mud

Recovered ft. of

Recovered ft. of

Remarks:

Gravity 41 @ 96 not Corrected

on location 11:45 Am packed off 12:30 PM ol 10:30 PM

Time Set Packer(s) 2:20 A.M. P.M. Time Started Off Bottom 5:20 A.M. P.M. Maximum Temperature 98

Initial Hydrostatic Pressure			(A)	1409	P.S.I.	
Initial Flow Period	Minutes 30		(B)	63	P.S.I. to (C)	292 P.S.I.
Initial Closed In Period	Minutes 30		(D)	591	P.S.I.	
Final Flow Period	Minutes 60		(E)	361	P.S.I. to (F)	533 P.S.I.
Final Closed In Period	Minutes 90		(G)	560	P.S.I.	
Final Hydrostatic Pressure			(H)	1357	P.S.I.	

COMPANY TERMS

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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

Signature of Customer or his authorized representative

RECEIVED JUL 8 1980

Western Representative Fred H Klaus II

FIELD INVOICE

Open Hole Test	$	550.00
Misrun	$	
Straddle Test	$	
Jars	$	
Selective Zone	$	
Safety Joint	$	
Standby	$	
Evaluation	$	
Extra Packer	$	
Circ. Sub.	$	30.00
30 Mileage X 75¢	$	22.50
Fluid Sampler	$	
Extra Charts	$	
TOTAL	$	602.50

Pressure Data

Date 7-6 (89) Test Ticket No. 6022

Recorder No. 1558 Capacity 4200 Location 2531 Ft.

Clock No. ← Elevation 1443 KB Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1414	P.S.I.	Open Tool 2:20 P M	
B First Initial Flow Pressure	56	P.S.I.	First Flow Pressure 30 Mins.	30 Mins.
C First Final Flow Pressure	265	P.S.I.	Initial Closed-in Pressure 30 Mins.	30 Mins.
D Initial Closed-in Pressure	577	P.S.I.	Second Flow Pressure 60 Mins.	60 Mins.
E Second Initial Flow Pressure	367	P.S.I.	Final Closed-in Pressure 90 Mins.	Mins.
F Second Final Flow Pressure	527	P.S.I.		
G Final Closed-in Pressure	586	P.S.I.		
H Final Hydrostatic Mud	1399	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure

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

Point	Mins.	Press.
P 1	0	56
P 2	5	80
P 3	10	120
P 4	15	168
P 5	20	209
P 6	25	253
P 7	30	265
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	265
3	500
6	523
9	537
12	548
15	556
18	562
21	567
24	571
27	573
30	577
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure

Breakdown: Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	367
5	366
10	380
15	396
20	414
25	432
30	451
35	468
40	483
45	498
50	512
55	521
60	527
65	
70	
75	
80	
85	
90	

Final Shut-In

Breakdown: Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	527
3	542
6	552
9	560
12	562
15	566
18	567
21	569
24	571
27	573
30	575
33	576
36	579
39	580
42	852
45	583
48	583
51	584
54	584
57	585
60	585

WESTERN TESTING CO., INC.
Pressure Data

Test Ticket No. 6022

...rt _____

...corder No. _____ Capacity _____ Location _____

...ock No. _____ Elevation _____ Well Temperature _____

...Int	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
Breakdown: _____ Inc.
of 5 mins. and a
final inc. of 0 Min.

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

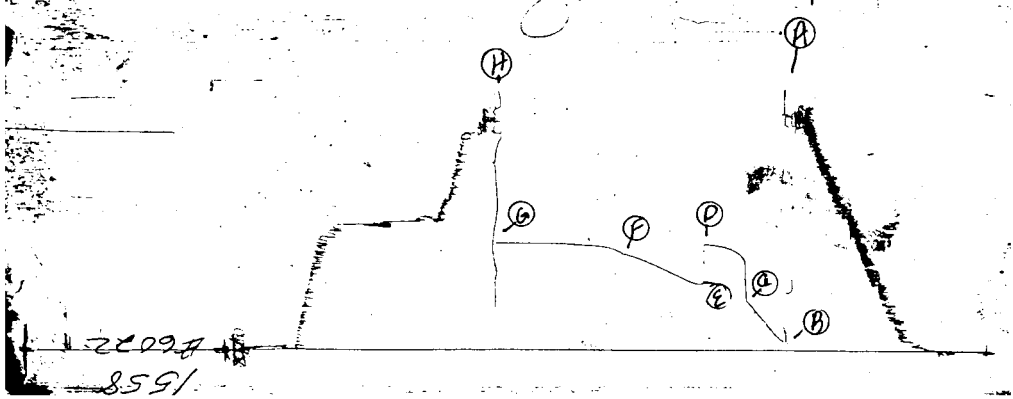
Second Flow Pressure
Breakdown: _____ Inc.
of 5 mins. and a
final inc. of 0 Min.

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

...oint ...ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1		63				63	585
2		66				66	586
3		69				69	586
4		72				72	586
5		75				75	586
6		78				78	
7		81				81	
8		84				84	
9		87				87	
10		90				90	586
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	

Jkt #6022

I



Jkt #6022

Company Range Oil Company, Inc. Lease & Well No. Ramsey Clevenger #6

Elevation 1443 Kelly Bushing Formation Mississippi Effective Pay ----- Ft. Ticket No. 6022

Date 7/6/80 Sec. 9 Twp. 24S Range 5E County Barber State Kansas

Test Approved by Stephen M. Kreidler Western Representative Fred G. Klaus

Formation Test No. 2 Interval Tested from 2525 ft. to 2541 ft. Total Depth 2541 ft.

Packer Depth 2520 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2525 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2531 ft. Recorder Number 1558 Cap. 4200 PSI

Bottom Recorder Depth (Outside) 2534 ft. Recorder Number 1559 Cap. 4200 PSI

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

Drilling Contractor Range Drilling Drill Collar Length 120 I. D. 3 3/4 in.

Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 15.4 cc. Drill Pipe Length 2385 I. D. 3.8 in.

Chlorides 2,100 P.P.M. Test Tool Length 36 ft. Tool Size 5½ in.

Jars: Make No Serial Number - Anchor Length 16 ft. Size 5½ in.

Did Well Flow? No Reversed Out Yes 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: Strong & steady.

Recovered 180 ft. of gas in pipe

Recovered 1120 ft. of free oil

Recovered 246 ft. of heavy mud (60% mud;15% oil cut;25% gassy oil cut mud)

Recovered ft. of

Recovered ft. of Gravity 41 @ 96° not corrected

Remarks:

Time Set Packer(s) 2:20 ~~A.M.~~ P.M. Time Started Off Bottom 5:20 ~~A.M.~~ P.M. Maximum Temperature 98°

Initial Hydrostatic Pressure			(A) 1416	P.S.I.		
Initial Flow Period	Minutes 30	(B) 56	P.S.I. to	(C) 265	P.S.I.	
Initial Closed In Period	Minutes 30	(D) 577	P.S.I.			
Final Flow Period	Minutes 60	(E) 367	P.S.I. to	(F) 527	P.S.I.	
Final Closed In Period	Minutes 90	(G) 586	P.S.I.			
Final Hydrostatic Pressure			(H) 1399	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 7-6-80 Test Ticket No. 6022

Recorder No. 1558 Capacity 4200 Location 2531 Ft.

Clock No. ------ Elevation 1443 Kelly Bushing Well Temperature 98 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1416 P.S.I.		Open Tool	2:20 P. M	
B	First Initial Flow Pressure	56 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	265 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	577 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	367 P.S.I.		Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	527 P.S.I.				
G	Final Closed-in Pressure	586 P.S.I.				
H	Final Hydrostatic Mud	1399 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	56
P 2 5	80
P 3 10	120
P 4 15	168
P 5 20	209
P 6 25	253
P 7 30	265
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	265
3	500
6	523
9	537
12	548
15	556
18	562
21	567
24	571
27	573
30	577

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	367
5	366
10	380
15	396
20	414
25	433
30	451
35	468
40	483
45	498
50	512
55	521
60	527

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	527
3	542
6	552
9	560
12	562
15	566
18	567
21	569
24	571
27	573
30	575
33	576
36	579
39	580
42	582
45	583
48	583
51	584
54	584
57	585
60	585

Continued on next page

WESTERN TESTING CO., INC.
Pressure Data

Date 7-6-80 Test Ticket No. 6022

Recorder No. 1558 Capacity 4200 Location 2531 Ft.

Clock No. ------ Elevation 1443 Kelly Bushing Well Temperature 98 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1416 P.S.I.		Open Tool	2:20 P. M.	
B	First Initial Flow Pressure	56 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	265 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	577 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	367 P.S.I.		Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	527 P.S.I.				
G	Final Closed-in Pressure	586 P.S.I.				
H	Final Hydrostatic Mud	1399 P.S.I.				

PRESSURE BREAKDOWN

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

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

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 30 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						63	585
P 2						66	586
P 3						69	586
P 4						72	586
P 5						75	586
P 6						78	586
P 7						81	586
P 8						84	586
P 9						87	586
P10						90	586
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 6023

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

Elevation KB 1443 Formation Miss Eff. Pay Ft.

District Augusta Date 7-7-80 Customer Order No.

COMPANY NAME Range oil Co, Inc.

ADDRESS 240 Page Court 220 West Douglas - Wichita Ks.

LEASE AND WELL NO. Ramsby & Clevenger #1 COUNTY Barber STATE Ks Sec. 9 Twp. 34S Rge. 5E

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

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 3 Interval Tested from 2541 ft. to 2568 ft. Total Depth 2568 ft.

Packer Depth 2541 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 2535 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 2547 ft. Recorder Number 1558 Cap. 4200 PSI

Bottom Recorder Depth (Outside) 2550 ft. Recorder Number 1559 Cap. 4200 PSI

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

Drilling Contractor Range Drlg Co Drill Collar Length 120 I. D. 3 1/4 in.

Mud Type Chem. Viscosity 39 Weight Pipe Length — I. D. — in.

Weight 9.8 Water Loss 16 cc. Drill Pipe Length 2401 I. D. 3.8 in.

Chlorides 1200 P.P.M. Test Tool Length 47 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 27 ft. Size 5 1/2 in.

Did Well Flow? — Reversed Out yes 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: Strong steady blow

Recovered 1578 ft. of oil gravity 44@ 87 not corrected

Recovered 136 ft. of Heavy oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

on location 5:10AM Picked up tool 5:45AM off location 3:15 PM - 7-7-80

Time Set Packer(s) 7:25 A.M. P.M. Time Started Off Bottom 10:25 A.M. P.M. Maximum Temperature 98

Initial Hydrostatic Pressure		(A)	1294	P.S.I.		
Initial Flow Period	Minutes 30	(B)	157	P.S.I. to	(C) 454	P.S.I.
Initial Closed In Period	Minutes 30	(D)	570	P.S.I.		
Final Flow Period	Minutes 60	(E)	502	P.S.I. to	(F) 606	P.S.I.
Final Closed In Period	Minutes 60	(G)	502	P.S.I.		
Final Hydrostatic Pressure		(H)	1158	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 [signature]
Signature of Customer or his authorized representative

Western Representative Fred Kellam

RECEIVED JUL 8 1980

FIELD INVOICE

Open Hole Test	$ 550.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Sampler	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$ 30.00
Mileage 30 X 75¢	$ 22.50
Fluid Sampler	$
Extra Charts	$
TOTAL	$ 602.50

WESTERN TESTING CO., INC.

Pressure Data

Date 7-7-80 Test Ticket No. 6023

Recorder No. 1558 Capacity 4200 Location 2547 Ft

Clock No. Elevation 1443 KB Well Temperature 98 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1288 P.S.I.		Open Tool	7:25 AM	
B	First Initial Flow Pressure	179 P.S.I.		First Flow Pressure	30 Mins.	30 Mins
C	First Final Flow Pressure	416 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins
D	Initial Closed-in Pressure	579 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins
E	Second Initial Flow Pressure	519 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Mins
F	Second Final Flow Pressure	600 P.S.I.				
G	Final Closed-in Pressure	618 P.S.I.				
H	Final Hydrostatic Mud	1173 P.S.I.				

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	179
P 2	5	188
P 3	10	247
P 4	15	312
P 5	20	367
P 6	25	399
P 7	30	416
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	416
3	520
6	533
9	548
12	553
15	560
18	564
21	571
24	575
27	577
30	579
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

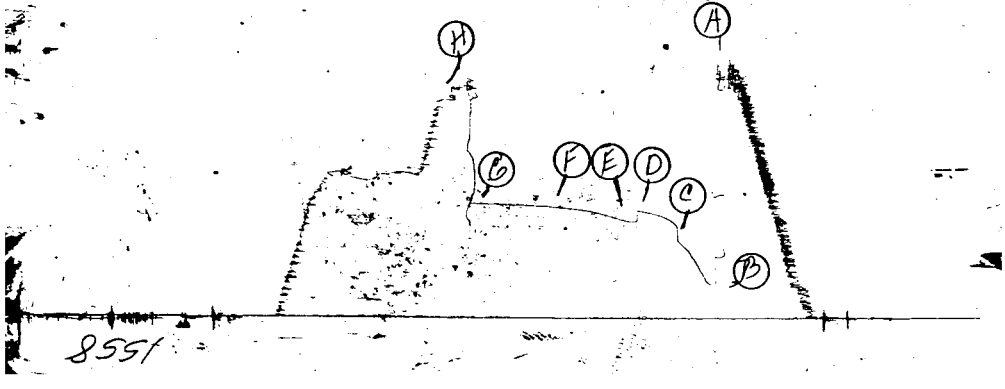
Point Minutes	Press.
0	519
5	519
10	529
15	540
20	552
25	564
30	573
35	581
40	583
45	587
50	592
55	598
60	600
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	600
3	602
6	604
9	606
12	607
15	608
18	608
21	609
24	609
27	610
30	610
33	610
36	611
39	612
42	612
45	613
48	614
51	615
54	616
57	617
60	618

WTC - 4

11# 6023
I



8551

Company Range Oil Company, Inc. Lease & Well No. Ramsey Clevenger #6

Elevation 1443 Kelly Bushing Formation Mississippi Effective Pay ----- Ft. Ticket No. 6023

Date 7/7/80 Sec. 9 Twp. 24S Range 5E County Barber State Kansas

Test Approved by Stephen M. Kreidler Western Representative Fred G. Klaus

Formation Test No. 3 Interval Tested from 2541 ft. to 2568 ft. Total Depth 2568 ft.

Packer Depth 2541 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2535 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2547 ft. Recorder Number 1558 Cap. 4200 PSI

Bottom Recorder Depth (Outside) 2550 ft. Recorder Number 1559 Cap. 4200 PSI

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

Drilling Contractor Range Drilling Co. Drill Collar Length 120 I. D. 3 3/4 in.

Mud Type chemical Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 16 cc. Drill Pipe Length 2401 I. D. 3.8 in.

Chlorides 1,200 P.P.M. Test Tool Length 47 ft. Tool Size 5½ in.

Jars: Make - Serial Number - Anchor Length 27 ft. Size 5½ in.

Did Well Flow? - Reversed Out Yes 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: Strong steady blow.

Recovered 1578 ft. of oil Gravity 44 @ 87° not corrected

Recovered 136 ft. of gassy oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:25 A.M. P.M. Time Started Off Bottom 10:25 A.M. P.M. Maximum Temperature 98°

Initial Hydrostatic Pressure			(A)	1288	P.S.I.	
Initial Flow Period	Minutes 30		(B)	179	P.S.I. to (C)	416 P.S.I.
Initial Closed In Period	Minutes 30		(D)	579	P.S.I.	
Final Flow Period	Minutes 60		(E)	519	P.S.I. to (F)	600 P.S.I.
Final Closed In Period	Minutes 60		(G)	618	P.S.I.	
Final Hydrostatic Pressure			(H)	1173	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 7-7-80 Test Ticket No. 6023

Recorder No. 1558 Capacity 4200 Location 2547 Ft.

Clock No. ----- Elevation 1443 Kelly Bushing Well Temperature 98 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1288 P.S.I.		Open Tool	7:25 A. M	
B	First Initial Flow Pressure	179 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	416 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	579 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	519 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	600 P.S.I.				
G	Final Closed-in Pressure	618 P.S.I.				
H	Final Hydrostatic Mud	1173 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	179
P 2 5	188
P 3 10	247
P 4 15	312
P 5 20	367
P 6 25	399
P 7 30	416
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	416
3	520
6	533
9	548
12	553
15	560
18	564
21	571
24	575
27	577
30	579

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	519
5	519
10	529
15	540
20	552
25	564
30	573
35	581
40	583
45	587
50	592
55	598
60	600

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	600
3	602
6	604
9	606
12	607
15	608
18	608
21	609
24	609
27	610
30	610
33	610
36	611
39	612
42	612
45	613
48	614
51	615
54	617
57	617
60	618