



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

Company Range Oil Company Lease & Well No. Brown #D-1
Elevation 1090 Kelly Bushing Formation Bartlesville Effective Pay _____ Ft. Ticket No. 207
Date 4/25/78 Sec. 11 Twp. 33S Range 4E County Cowley State Kansas
Test Approved by Stephen M. Kreidler Western Representative Tim Wilson
Formation Test No. 2 Interval Tested from 3004' ft. to 3014' ft. Total Depth 3014' ft.
Packer Depth 2999 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3004 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 3007 ft. Recorder Number 1559 Cap. 4200
Bottom Recorder Depth (Outside) 3010 ft. Recorder Number 1561 Cap. 3200
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor White & Ellis #4 Drill Collar Length 148 I. D. 2 1/4 in.
Mud Type chemical Viscosity 46 Weight Pipe Length _____ I. D. _____ in.
Weight 9.8 Water Loss 9.6 cc. Drill Pipe Length 2837 I. D. 3.8 in.
Chlorides 2,600 P.P.M. Test Tool Size 5 1/2 in. Tool Joint Size 4 1/2 FH in.
Jars: Make _____ Serial Number _____ Anchor Length 10 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.
Blow: Weak building to strong.

Recovered 1600 ft. of Gas in pipe
Recovered 90 ft. of Free oil
Recovered 50 ft. of Heavily oil cut mud
Recovered 187 ft. of Muddy oil cut water 40 ft. salt water
Recovered 267 ft. of Total Fluid
Remarks: _____

Time Set Packer(s) 12:15 ~~A.M.~~ P.M. Time Started Off Bottom 3:48 ~~A.M.~~ P.M. Maximum Temperature 122
Initial Hydrostatic Pressure (A) 1538 P.S.I.
Initial Flow Period Minutes 30 (B) 16 P.S.I. to (C) 56 P.S.I.
Initial Closed In Period Minutes 30 (D) 1173 P.S.I.
Final Flow Period Minutes 60 (E) 92 P.S.I. to (F) 113 P.S.I.
Final Closed In Period Minutes 90 (G) 1223 P.S.I.
Final Hydrostatic Pressure (H) 1538 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/25/78 Test Ticket No. 207
 Recorder No. 1559 Capacity 4200 Location 3007
 Clock No. ----- Elevation 1090 Kelly Bushing Well Temperature 122

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1538 P.S.I.	Open Tool	12:15P	M
B First Initial Flow Pressure	16 P.S.I.	First Flow Pressure	30 Mins	30 Mi
C First Final Flow Pressure	56 P.S.I.	Initial Closed-in Pressure	30 Mins	33 Mi
D Initial Closed-in Pressure	1173 P.S.I.	Second Flow Pressure	60 Mins	60 Mi
E Second Initial Flow Pressure	92 P.S.I.	Final Closed-in Pressure	90 Mins	90 Mi
F Second Final Flow Pressure	113 P.S.I.			
G Final Closed-in Pressure	1223 P.S.I.			
H Final Hydrostatic Mud	1538 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>30</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	16	0	56	0	92	0	113
P 2 5	17	3	242	5	78	3	256
P 3 10	27	6	495	10	78	6	445
P 4 15	38	9	745	15	82	9	687
P 5 20	47	12	902	20	87	12	831
P 6 25	52	15	1000	25	90	15	918
P 7 30	56	18	1056	30	94	18	987
P 8		21	1096	35	98	21	1026
P 9		24	1125	40	101	24	1054
P10		27	1148	45	106	27	1084
P11		30	1163	50	110	30	1103
P12		33	1173	55	113	33	1120
P13				60	113	36	1133
P14						39	1145
P15						42	1155
P16						45	1163
P17						48	1170
P18						51	1177
P19						54	1183
P20						57	1188
						60	1192

WESTERN TESTING CO., INC.

Pressure Data

Date 4/25/78 Test Ticket No. 207
 Recorder No. 1559 Capacity 4200 Location 3007 Ft.
 Clock No. ----- Elevation 1090 Kelly Bushing Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1538 P.S.I.	Open Tool	12:15P	M
B First Initial Flow Pressure	16 P.S.I.	First Flow Pressure	30 Mins	30 Mins
C First Final Flow Pressure	56 P.S.I.	Initial Closed-in Pressure	30 Mins	33 Mins
D Initial Closed-in Pressure	1173 P.S.I.	Second Flow Pressure	60 Mins	60 Mins
E Second Initial Flow Pressure	92 P.S.I.	Final Closed-in Pressure	90 Mins	90 Mins
F Second Final Flow Pressure	113 P.S.I.			
G Final Closed-in Pressure	1223 P.S.I.			
H Final Hydrostatic Mud	1538 P.S.I.			

PRESSURE BREAKDOWN

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

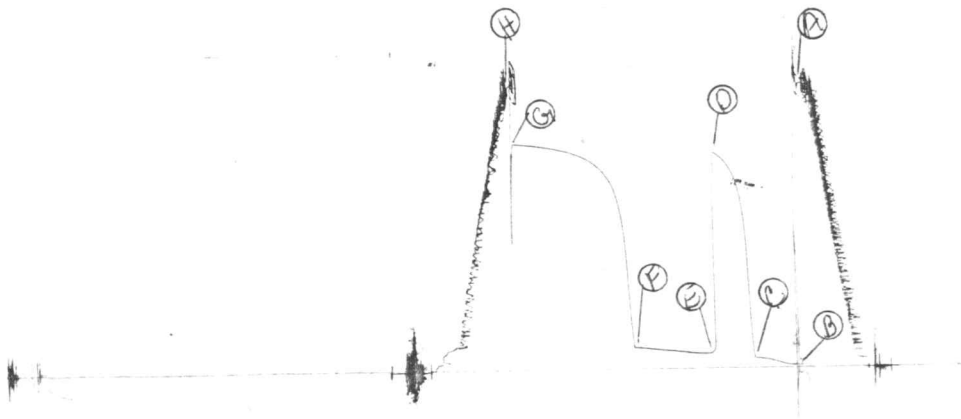
Initial Shut-In
 Breakdown: 11 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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	1196
P 2						66	1201
P 3						69	1205
P 4						72	1208
P 5						75	1211
P 6						78	1213
P 7						81	1215
P 8						84	1218
P 9						87	1222
P10						90	1223
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 207
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P. O. BOX 1599 PHONE (316) 838-0601
WICHITA, KANSAS 67201

Company Range Oil Company, Inc. Lease & Well No. Brown #D-1 (SR)
Elevation 1090 Kelly Bushing Mississippi Formation Effective Pay ----- Ft. Ticket No. 170
Date 4/26/78 Sec. 11 Twp 33s Range 4e County Cowley State Kansas
Test Approved by Robert G. Brooks Western Representative Sam McClune
Formation Test No. 3 Interval Tested from 3098 ft. to 3108 ft. Total Depth 3108 ft.
Packer Depth 3093 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.
Packer Depth 3098 ft. Size 6 3/4 in. Packer Depth --- ft. Size --- in.
Depth of Selective Zone Set ----
Top Recorder Depth (Inside) 3101 ft. Recorder Number 3085 Cap. 4500
Bottom Recorder Depth (Outside) 3104 ft. Recorder Number 1569 Cap. 3150
Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --
Drilling Contractor White & Ellis Rig #4 Drill Collar Length 150 I. D. 2.25 in.
Mud Type chemical Viscosity 46 Weight Pipe Length ---- I. D. ---- in.
Weight 9.8 Water Loss 9.6 cc. Drill Pipe Length 2828 I. D. 3.8 in.
Chlorides 2,600 P.P.M. Test Tool Size 5 1/2 OD in. Tool Joint Size 4 1/2 FH in.
Jars: Make ----- Serial Number ---- Anchor Length 10 ft. Size 5 1/2 OD 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.

Blow: Strong throughout test.

Recovered 75 ft. of very slightly oil and gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:30 A.M. Time Started Off Bottom 12:00 P.M. Maximum Temperature 120
Initial Hydrostatic Pressure (A) 1528 P.S.I.
Initial Flow Period Minutes 30 (B) 39 P.S.I. to (C) 17 P.S.I.
Initial Closed In Period Minutes 30 (D) 1028 P.S.I.
Final Flow Period Minutes 60 (E) 43 P.S.I. to (F) 16 P.S.I.
Final Closed In Period Minutes 90 (G) 1051 P.S.I.
Final Hydrostatic Pressure (H) 1502 P.S.I.



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

GAS FLOW REPORT

Date 4/26/78 Ticket 170 Company Range Oil Company, Inc.
Well Name and No. Brown #D-1 (SR) Dst No. 3 Interval Tested 3098'-3108'
County Cowley State Kansas Sec. 11 Twp. 33S Rg. 4E

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
9:25	25 min.	gas to surface				
9:30	30 minutes	7" of water 1/2" orifice				16,700 CFPD

SECOND FLOW						
9:10	10 min.	11"	of water 1/2" orifice			20,900 CFPD
9:50	20 min.	12"	of water 1/2" orifice			21,900 CFPD
10:00	30 min.	11"	of water 1/2" orifice			20,900 CFPD
10:10	40	10"	of water 1/2" orifice			19,900 CFPD
10:20	50	11"	of water 1/2" orifice			20,900 CFPD
10:30	60	10"	of water 1/2" orifice			19,900 CFPD

GAS BOTTLE

Serial No. 602 Date Bottle Filled 4/26/78 Date to be Invoiced 4 /26/78

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% per month, equal to 12% 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 RANGE OIL COMPANY, INC.

Authorized by Robert G. Brooks

WESTERN TESTING CO., INC.

Pressure Data

Date 4/26/78

Recorder No. 3085

Capacity 4500

Test Ticket No. 170

Location 3101

Ft.

Clock No. ----

Elevation 1090 Kelly B ushing

Well Temperature 120

°F

Point	Pressure	
A Initial Hydrostatic Mud	1528	P.S.I.
B First Initial Flow Pressure	39	P.S.I.
C First Final Flow Pressure	17	P.S.I.
D Initial Closed-in Pressure	1028	P.S.I.
E Second Initial Flow Pressure	43	P.S.I.
F Second Final Flow Pressure	16	P.S.I.
G Final Closed-in Pressure	1051	P.S.I.
H Final Hydrostatic Mud	1502	P.S.I.

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

Time Given	Time Computed
8:30 A M	
30 Mins.	30 Mins.
30 Mins.	30 Mins.
60 Mins.	60 Mins.
90 Mins.	90 Mins.

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 0	39	0	17	0	43	0	16
P 2 5	22	3	280	5	26	3	311
P 3 10	19	6	581	10	20	6	530
P 4 15	18	9	755	15	18	9	653
P 5 20	17	12	856	20	17	12	734
P 6 25	17	15	914	25	16	15	788
P 7 30	17	18	951	30	16	18	828
P 8		21	975	35	16	21	856
P 9		24	998	40	16	24	877
P10		27	1014	45	16	27	900
P11		30	1028	50	16	30	919
P12				55	16	33	932
P13				60	16	36	945
P14						39	956
P15						42	965
P16						45	974
P17						48	982
P18						51	989
P19						54	999
P20						57	1003
						60	1010

WESTERN TESTING CO., INC.

Pressure Data

Date 4/26/78 Test Ticket No. 170
 Recorder No. 3085 Capacity 4500 Location 3101 Ft.
 Clock No. ---- Elevation 1090 Kelly B ushing Well Temperature 120 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1528 P.S.I. Open Tool 8:30 A M
 B First Initial Flow Pressure 39 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 17 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 D Initial Closed-in Pressure 1028 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 43 P.S.I. Final Closed-in Pressure 90 Mins. 90 Mins.
 F Second Final Flow Pressure 16 P.S.I.
 G Final Closed-in Pressure 1051 P.S.I.
 H Final Hydrostatic Mud 1502 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>10</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>30</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						63	1016
P 2						66	1022
P 3						69	1026
P 4						72	1031
P 5						75	1035
P 6						78	1039
P 7						81	1042
P 8						84	1046
P 9						87	1049
P10						90	1051
P11							
P12							
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TKT # 170
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