WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 10901

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

Elevation 1113 Kb Formation Miss Eff. Pay Ft.

District 13 Augusta Date 7-12-85 Customer Order No.

COMPANY NAME R040 Range Oil Co Inc 240 Page Court

ADDRESS 220 West Douglas

LEASE AND WELL NO. Malone #3 COUNTY Chautauqua STATE Ks Sec. 17 Twp. 32S Rge. 10E

Mail Invoice To Same #3 "A" Malone Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 2 Interval Tested From 2110 ft. to 2130 ft. Total Depth 2130 ft.

Packer Depth 2110 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 2105 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2115 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 2120 ft. Recorder Number 2608 Cap. 4150

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor

Mud Type Chem Viscosity 43

Weight 9.3 Water Loss 13.6 cc.

Chlorides 1000 P.P.M.

Jars: Make N/O Serial Number

Did Well Flow? Reversed Out

Drill Collar Length 180 I. D. 2.25 in.

Weight Pipe Length I. D. in.

Drill Pipe Length 1910 I. D. 3.8 in.

Test Tool Length 20 ft. Tool Size 5 1/2 in.

Anchor Length 20 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: Wk blow died 10 min first flow, surge as tool opened second flow.

Recovered 5 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

RECEIVED
JUL 15 1985

Time On Location 8:00 A.M. P.M. Time Pick Up Tool 11:30 A.M. P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 12:45 A.M. P.M. Time Started Off Bottom A.M. P.M. Maximum Temperature

Initial Hydrostatic Pressure			(A) 1047	P.S.I.	
Initial Flow Period	Minutes 30		(B) 31	P.S.I. to (C) 31	P.S.I.
Initial Closed In Period	Minutes 30		(D) 95	P.S.I.	
Final Flow Period	Minutes 30		(E) 42	P.S.I. to (F) 31	P.S.I.
Final Closed In Period	Minutes 30		(G) 95	P.S.I.	
Final Hydrostatic Pressure			(H) 1047	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 1½% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By H.G. McMahon III
Signature of Customer or his authorized representative

Western Representative Kenny Kurfendall

FIELD INVOICE

Open Hole Test	$ 550
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$

WESTERN TESTING CO., INC.
Pressure Data

Date 7-12-85 Test Ticket No. 10904

Recorder No. 2605 Capacity 4150 Location Ft

Clock No. Elevation Well Temperature °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1060	P.S.I.	Open Tool	M	
B	First Initial Flow Pressure	40	P.S.I.	First Flow Pressure	30 Mins.	Mins
C	First Final Flow Pressure	40	P.S.I.	Initial Closed-in Pressure	Mins.	Mins
D	Initial Closed-in Pressure	106	P.S.I.	Second Flow Pressure	Mins.	Mins
E	Second Initial Flow Pressure	50	P.S.I.	Final Closed-in Pressure	Mins.	Mins
F	Second Final Flow Pressure	50	P.S.I.			
G	Final Closed-in Pressure	107	P.S.I.			
H	Final Hydrostatic Mud	1060	P.S.I.			

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	40
P 2	5	
P 3	10	
P 4	15	
P 5	20	
P 6	25	
P 7	30	40
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14	65	
P15	70	
P16	75	
P17	80	
P18	85	
P19	90	
P20	95	
	100	

Initial Shut-In
Breakdown: 12 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	40
3	40
6	41
9	43
12	48
15	54
18	65
21	70
24	76
27	84
30	97
33	106
36	
39	
42	
45	
48	
51	
54	
57	
60	

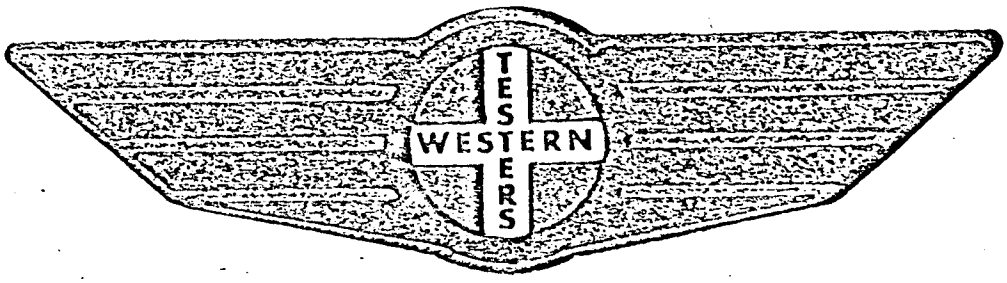
Second Flow Pressure
Breakdown: Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	50
5	
10	
15	
20	
25	
30	50
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	

Final Shut-In
Breakdown: 13 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	50
3	50
6	48
9	48
12	49
15	52
18	59
21	65
24	73
27	82
30	91
33	99
36	107
39	
42	
45	
48	
51	
54	
57	
60	

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

mpany RANGE OIL COMPANY, INC. Lease & Well No. #3 "A" MALONE Sec. 11 Twp. 22S Rge. 20W Test No. 1 Date

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 7/12/85
TICKET #10904
CUSTOMER: RANGE OIL COMPANY INC.
LEASE: "A" MALONE
WELL: 3 TEST: 2
GEOLOGIST: MCMAHON
ELEVATION (KB): 1113 FORMATION: MISSISSIPPI
SECTION: 17 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2110 FT TO: 2130 FT TOTAL DEPTH: 2130 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2110 FT SIZE: 6 3/4 IN PACKER DEPTH: 2105 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 43
WEIGHT: 9.3 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 1000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1910 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 20 FT SIZE: 5 1/2 OD 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: INITIAL FLOW PERIOD WEAK BLOW.
DIED IN 10 MINUTES. FINAL FLOW
PERIOD SURGE AS TOOL OPENED.

RECOVERED: 5 FT OF: MUD.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 12:45 AM TIME STARTED OFF BOTTOM: 2:45 AM
WELL TEMPERATURE: 0 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1060 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 40 PSI TO (C) 40 PSI
INITIAL CLOSED IN PERIOD MIN: 33 (D) 106 PSI
FINAL FLOW PERIOD MIN: 30 (E) 50 PSI TO (F) 50 PSI
FINAL CLOSED IN PERIOD MIN: 36 (G) 107 PSI
FINAL HYDROSTATIC PRESSURE (H) 1060 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 7/12/85 TICKET #10904
CUSTOMER: RANGE OIL COMPANY INC. LEASE: "A" MALONE
WELL: 3 TEST: 2 GEOLOGIST: MCMAHON
ELEVATION (KB): 1113 FORMATION: MISSISSIPPI
SECTION: 17 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1060	PSI
(B) FIRST INITIAL FLOW PRESSURE:	40	PSI
(C) FIRST FINAL FLOW PRESSURE:	40	PSI
(D) INITIAL CLOSED-IN PRESSURE:	106	PSI
(E) SECOND INITIAL FLOW PRESSURE:	50	PSI
(F) SECOND FINAL FLOW PRESSURE:	50	PSI
(G) FINAL CLOSED-IN PRESSURE:	107	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1060	PSI
WELL TEMPERATURE:	0	'F

OPEN TOOL: 12:45 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	33	MIN
SECOND FLOW PRESSURE:	30	MIN	30	MIN
FINAL CLOSED-IN PRESSURE:	30	MIN	36	MIN

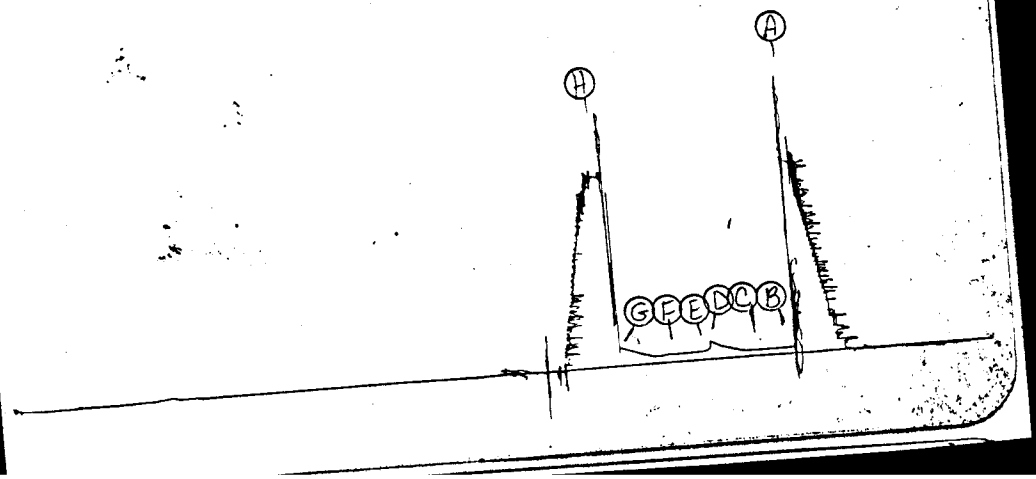
PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	40	0	40	0	50	0	50
2	5	40	3	40	5	50	3	50
3	10	40	6	41	10	50	6	48
4	15	40	9	43	15	50	9	48
5	20	40	12	48	20	50	12	49
6	25	40	15	54	25	50	15	52
7	30	40	18	65	30	50	18	59
8			21	70			21	65
9			24	76			24	73
10			27	86			27	82
11			30	97			30	91
12			33	106			33	99
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TKT #10904

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2605
DST#2



DSC-2

TKT #10904

