



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 10862

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

Elevation 1084 KB Formation Bartlesville Eff. Pay Ft.

District Augusta Date 9-13-85 Customer Order No.
COMPANY NAME Range Oil Co Inc

ADDRESS 240 Page Court 220 21 Douglas Wichita, Ks 67202

LEASE AND WELL NO. O'Brien #1 COUNTY Cowley STATE Ks Sec 22 Twp 34 S Rge 3E

Mail Invoice To Same Co. Name #1 O'Brien Address No. Copies Requested 1

Mail Charts To Same #1 O'Brien Address No. Copies Requested 5

Formation Test No. 2 Interval Tested From 3266 ft. to 3288 ft. Total Depth 3288 ft.
Packer Depth 3266 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3261 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 3280 ft. Recorder Number 13553 Cap. 4000
Bottom Recorder Depth (Outside) 3283 ft. Recorder Number 3474 Cap. 3000
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Range Oil Co #2 Drill Collar Length 180 I. D. 2 1/4 in.
Mud Type Viscosity 43 Weight Pipe Length I. D. in.
Weight 9.9 Water Loss 12 cc. Drill Pipe Length 3066 I. D. 3.8 in.
Chlorides 2300 P.P.M. Test Tool Length 20 ft. Tool Size 5.00 in.
Jars: Make Serial Number Anchor Length 22 ft. Size 5.00 in.
Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 X 1 1/2 in.

Blow: 2 break 5 minutes

Recovered 5 ft. of Drilling mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides 2800 P.P.M. Sample Jars used 1 Remarks:

Time On Location 9:30 9:10 P.M. Time Pick Up Tool 10:50 P.M. Time Off Location Standby P.M.
Time Set Packer(s) 12:01 A.M. Time Started Off Bottom 2:01 P.M. Maximum Temperature 117
Initial Hydrostatic Pressure (A) 1700 P.S.I.
Initial Flow Period Minutes 30 (B) 30 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period Minutes 30 (D) 90 P.S.I.
Final Flow Period Minutes 30 (E) 40 P.S.I. to (F) 20 P.S.I.
Final Closed In Period Minutes 30 (G) 60 P.S.I.
Final Hydrostatic Pressure (H) 1700 P.S.I. 13553

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

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

Western Representative [Signature]

WESTERN TESTING CO., INC.

Pressure Data

Date 9-13

Test Ticket No. 10862

Recorder No. 13553

Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.

Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1700</u> P.S.I.	Open Tool		
B First Initial Flow Pressure	<u>18</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>18</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>83</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>20</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>20</u> P.S.I.			
G Final Closed-in Pressure	<u>42</u> P.S.I.			
H Final Hydrostatic Mud	<u>1700</u> P.S.I.			

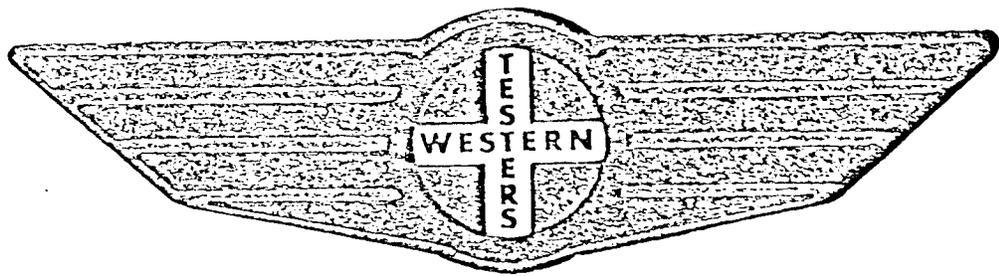
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>10</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	<u>18</u>	0	<u>18</u>	0	<u>20</u>	0	<u>20</u>
P 2 5		3	<u>20</u>	5		3	<u>21</u>
P 3 10		6	<u>24</u>	10		6	<u>22</u>
P 4 15		9	<u>29</u>	15		9	<u>23</u>
P 5 20		12	<u>37</u>	20		12	<u>24</u>
P 6 25		15	<u>44</u>	25		15	<u>26</u>
P 7 30	<u>18</u>	18	<u>54</u>	30	<u>20</u>	18	<u>30</u>
P 8 35		21	<u>65</u>	35		21	<u>35</u>
P 9 40		24	<u>78</u>	40		24	<u>40</u>
P10 45		27	<u>83</u>	45		27	<u>42</u>
P11 50		30		50		30	
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

# FORMATION

# TEST

# REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company \_\_\_\_\_ RANGE OIL COMPANY, INC. Lease & Well No. \_\_\_\_\_ #1 O'Brien \_\_\_\_\_ Sec. \_\_\_\_\_ 44 Twp. \_\_\_\_\_ 240 Rge. \_\_\_\_\_ Test No. \_\_\_\_\_ Date \_\_\_\_\_

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 9-13-85  
CUSTOMER: RANGE OIL COMPANY INC.  
WELL: 1 TEST: 2  
ELEVATION (KB): 1084 FORMATION: BARTLESVILLE  
SECTION: 22 TOWNSHIP: 34S  
RANGE: 3E COUNTY: COWLEY STATE: KANSAS  
GAUGE SN #13553 RANGE: 4000 CLOCK: 12

TICKET #10862  
LEASE: O'BRIEN  
GEOLOGIST: S.M. KREIDLER

INTERVAL TEST FROM: 3266 FT TO: 3288 FT TOTAL DEPTH: 3288 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 3266 FT SIZE: 6 3/4 IN PAKER DEPTH: 3261 FT SIZE: 6 3/4 IN  
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG. RIG #2  
MUD TYPE: CHEMICAL VISCOSITY: 43  
WEIGHT: 9.9 WATER LOSS (CC): 12.0  
CHLORIDES (P.P.M.): 2300  
JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 3066 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN  
ANCHOR LENGTH: 22 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: WEAK BLOW FOR 5 MINUTES.

RECOVERED: 5 FT OF: DRILLING MUD.  
RECOVERED: FT OF: CHLORIDES 2800 PPM.  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 12:01 AM  
WELL TEMPERATURE: 117 °F  
INITIAL HYDROSTATIC PRESSURE:  
INITIAL FLOW PERIOD MIN: 30  
INITIAL CLOSED IN PERIOD MIN: 27  
FINAL FLOW PERIOD MIN: 30  
FINAL CLOSED IN PERIOD MIN: 27  
FINAL HYDROSTATIC PRESSURE

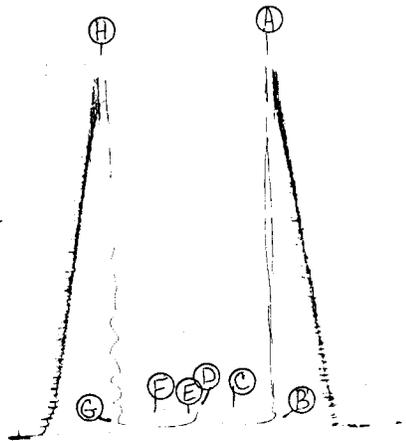
TIME STARTED OFF BOTTOM: 2:01 AM  
(A) 1700 PSI  
(B) 18 PSI TO (C) 18 PSI  
(D) 83 PSI  
(E) 20 PSI TO (F) 20 PSI  
(G) 42 PSI  
(H) 1700 PSI



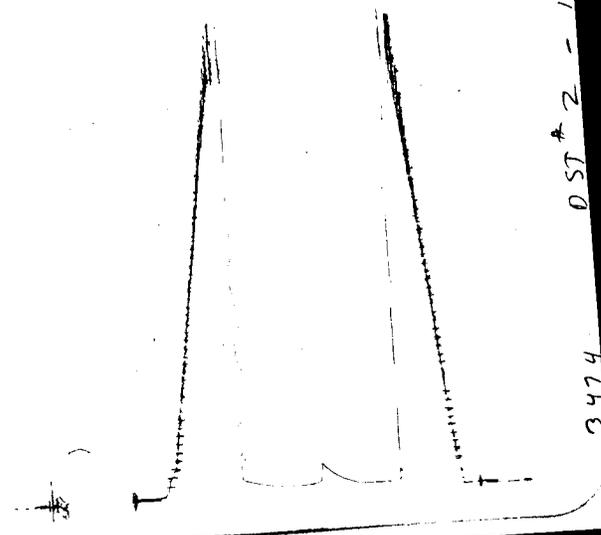
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