



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 10884 PK

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

Elevation 1326 KB Formation Miss Eff. Pay Ft.

District 13 Augusta Date 9-20-85 Customer Order No.

COMPANY NAME Range Oil Co Inc.

ADDRESS 240 Page Ct 220 W Douglas Wichita, KS 67202

LEASE AND WELL NO. Nelson C#2 COUNTY Saline STATE KS Sec. 18 Twp. 16S Rge. 1W

Mail Invoice To Same No. Copies Requested 1

Mail Charts To #2 'C' Nelson Address same No. Copies Requested 5

Formation Test No. 2 Interval Tested From 2580 ft. to 2703 ft. Total Depth 2703 ft.

Packer Depth 2575 ft. Size 6.75 in. Packer Depth ft. Size in.

Packer Depth 2580 ft. Size 6.75 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2598 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 2602 ft. Recorder Number 3351 Cap. 3925

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Range #1 Drill Collar Length 145 I. D. 2.25 in.

Mud Type Chem Viscosity 47 Weight Pipe Length I. D. in.

Weight 10.0 Water Loss 14.7 cc. Drill Pipe Length 2415 I. D. 3.8 in.

Chlorides 2400 P.P.M. Test Tool Length 20 ft. Tool Size 5.5 in.

Jars: Make Serial Number Anchor Length 123 ft. Size 5.5 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size .75 in. Bottom Choke Size .75 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 1 1/4 in.

Blow: Weak (1/2") thru out

Recovered 30 ft. of Drill Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks:

Time for Location DST#1 A.M. P.M. Time Pick Up Tool 10:15 A.M. P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 11:45 P.M. Time Started Off Bottom 3:15 P.M. Maximum Temperature 104°

Initial Hydrostatic Pressure (A) 1370 P.S.I.

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

Initial Closed In Period Minutes 30 (D) 425 P.S.I.

Final Flow Period Minutes 90 (E) 60 P.S.I. to (F) 60 P.S.I.

Final Closed In Period Minutes (90) 60 (G) 405 P.S.I.

Final Hydrostatic Pressure (H) 1350 P.S.I. # 5666

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 Robert Olsen Signature of Customer or his authorized representative

Western Representative Allen Edgington

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$550), Mistrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts.

*Ven...*

WESTERN TESTING CO., INC.

Pressure Data

Date 9-20-85 Recorder No. 5066 Capacity ~~2598~~ 3950 Location 2598 Ft. Test Ticket No. 10884  
Clock No. \_\_\_\_\_ Elevation 1326 K.B. Well Temperature 104 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1362</u> P.S.I.	<u>11:45P</u> M	
B First Initial Flow Pressure	<u>48</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>48</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>430</u> P.S.I.	<u>90</u> Mins.	<u>100</u> Mins.
E Second Initial Flow Pressure	<u>58</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>63</u> P.S.I.		
G Final Closed-in Pressure	<u>404</u> P.S.I.		
H Final Hydrostatic Mud	<u>1349</u> P.S.I.		

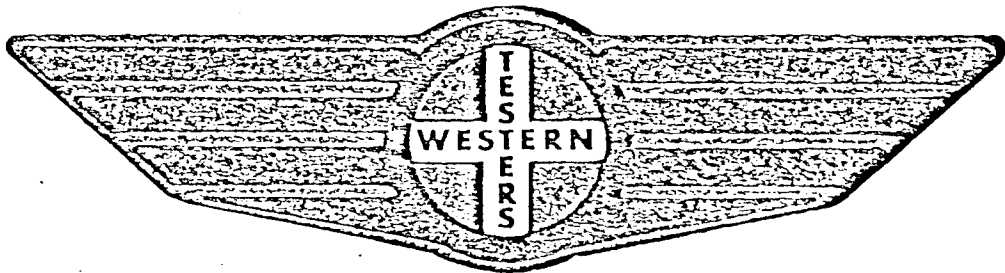
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>7</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>11</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>21</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>48</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>58</u>	<u>0</u>	<u>63</u>
P 2		<u>3</u>	<u>50</u>	<u>5</u>		<u>3</u>	<u>67</u>
P 3		<u>6</u>	<u>107</u>	<u>10</u>		<u>6</u>	<u>82</u>
P 4		<u>9</u>	<u>163</u>	<u>15</u>		<u>9</u>	<u>106</u>
P 5		<u>12</u>	<u>216</u>	<u>20</u>		<u>12</u>	<u>133</u>
P 6		<u>15</u>	<u>265</u>	<u>25</u>	<u>58</u>	<u>15</u>	<u>157</u>
P 7	<u>48</u>	<u>18</u>	<u>306</u>	<u>30</u>	<u>58</u>	<u>18</u>	<u>182</u>
P 8		<u>21</u>	<u>345</u>	<u>35</u>	<u>58</u>	<u>21</u>	<u>205</u>
P 9		<u>24</u>	<u>374</u>	<u>40</u>	<u>59</u>	<u>24</u>	<u>228</u>
P10		<u>27</u>	<u>404</u>	<u>45</u>	<u>59</u>	<u>27</u>	<u>248</u>
P11		<u>30</u>	<u>430</u>	<u>50</u>	<u>60</u>	<u>30</u>	<u>269</u>
P12		<u>33</u>		<u>55</u>	<u>60</u>	<u>33</u>	<u>288</u>
P13		<u>36</u>		<u>60</u>	<u>60</u>	<u>36</u>	<u>304</u>
P14		<u>39</u>		<u>65</u>	<u>61</u>	<u>39</u>	<u>320</u>
P15		<u>42</u>		<u>70</u>	<u>61</u>	<u>42</u>	<u>334</u>
P16		<u>45</u>		<u>75</u>	<u>61</u>	<u>45</u>	<u>351</u>
P17		<u>48</u>		<u>80</u>	<u>62</u>	<u>48</u>	<u>361</u>
P18		<u>51</u>		<u>85</u>	<u>62</u>	<u>51</u>	<u>374</u>
P19		<u>54</u>		<u>90</u>	<u>63</u>	<u>54</u>	<u>387</u>
P20		<u>57</u>		<u>95</u>	<u>63</u>	<u>57</u>	<u>397</u>
		<u>60</u>		<u>100</u>	<u>63</u>	<u>60</u>	<u>404</u>

# FORMATION

# TEST

# REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company \_\_\_\_\_ RANGE OIL COMPANY, INC. \_\_\_\_\_ Lease & Well No. \_\_\_\_\_ #2 "C" NELSON \_\_\_\_\_ Sec. \_\_\_\_\_ 18 Twp. \_\_\_\_\_ 16S Rge. \_\_\_\_\_ 1W Test No. \_\_\_\_\_ 2 Date 9/20/85

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE: 9/20/85  
CUSTOMER: RANGE OIL COMPANY INC.  
WELL: 2 TEST: 2  
ELEVATION (KB): 1326 FORMATION: MISSISSIPPI  
SECTION: 18 TOWNSHIP: 16S  
RANGE: 1W COUNTY: SALINE STATE: KANSAS  
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

TICKET #10884  
LEASE: "C" NELSON  
GEOLOGIST: OLSEN

INTERVAL TEST FROM: 2580 FT TO: 2703 FT TOTAL DEPTH: 2703 FT  
DEPTH OF SELECTIVE ZONE: FT  
PACKER DEPTH: 2575 FT SIZE: 6 3/4 IN PACKER DEPTH: 2580 FT SIZE: 6 3/4 IN  
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE  
MUD TYPE: CHEMICAL VISCOSITY: 47  
WEIGHT: 10.0 WATER LOSS (GC): 14.4  
CHLORIDES (P.P.M.): 2400  
JARS - MAKE: SERIAL NUMBER:  
DID WELL FLOW? NO REVERSED OUT? NO  
DRILL COLLAR LENGTH: 145 FT I.D.: 2 1/4 IN  
WEIGHT PIPE LENGTH: FT I.D.: IN  
DRILL PIPE LENGTH: 2415 FT I.D.: 3.8 IN  
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN  
ANCHOR LENGTH: 123 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: WEAK 1/2 INCH BLOW THROUGHOUT.

RECOVERED: 30 FT OF: DRILLING MUD  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
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RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:  
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 11:45 PM TIME STARTED OFF BOTTOM: 3:15 AM  
WELL TEMPERATURE: 104 °F  
INITIAL HYDROSTATIC PRESSURE: (A) 1362 PSI  
INITIAL FLOW PERIOD MIN: 30 (B) 48 PSI TO (C) 48 PSI  
INITIAL CLOSED IN PERIOD MIN: 30 (D) 420 PSI  
FINAL FLOW PERIOD MIN: 100 (E) 58 PSI TO (F) 63 PSI  
FINAL CLOSED IN PERIOD MIN: 60 (G) 404 PSI  
FINAL HYDROSTATIC PRESSURE (H) 1349 PSI

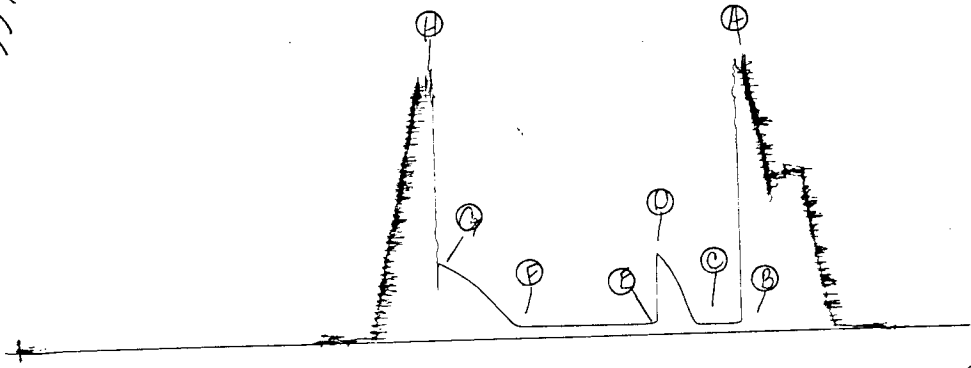


16884

DST #2

5666

TR # 10884  
I.



10894

DST #2

TK # 10884  
0.

