



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 7250

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

Elevation 1352 GL Formation msquoqueta Eff. Pay Ft.

District LAMAR Date 9 May 85 Customer Order No.
COMPANY NAME Range Oil Company
ADDRESS 240 Page Court 220 West Douglas Wichita Kansas 67202
LEASE AND WELL NO. #2 Carlson COUNTY McPherson STATE Kansas Sec. 6 Twp. 17S Rge. 3W
Mail Invoice To Same #2 Carlson No. Copies Requested Reg
Co. Name Address
Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 1 Interval Tested From 3391 ft. to 3400 ft. Total Depth 3400 ft.
Packer Depth 3386 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3391 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3394 ft. Recorder Number 13762 Cap. 3925
Bottom Recorder Depth (Outside) 3397 ft. Recorder Number 13759 Cap. 3900
Below Saddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Range #1 Drill Collar Length 120' I. D. 2 1/4 in.
Mud Type Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 10.2 Water Loss 12.6 cc. Drill Pipe Length 3251' I. D. 3.8 in.
Chlorides 2400 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 9 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. Tool Joint Size 4 1/2 in.

Blow: We are increasing to gain 8" in bucket on 1st flow period / We are increasing slowly to bottom of bucket in 28 minutes on 2nd flow period
Recovered 20 ft. of fine sand
Recovered 260 ft. of muddy water
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of
Chlorides 37,000 P.P.M. Sample Jars used 3 Remarks: rig trouble. Dist range the 10th/

Time On Location 10:10 A.M. Time Pick Up Tool 4:00 P.M. Time Off Location - A.M.
Time Set Packer(s) 5:35 P.M. Time Started Off Bottom 8:35 P.M. Maximum Temperature 109°F
Initial Hydrostatic Pressure (A) 1769 P.S.I.
Initial Flow Period Minutes 30 (B) 28 P.S.I. to (C) 76 P.S.I.
Initial Closed In Period Minutes 30 (D) 219 P.S.I.
Final Flow Period Minutes 60 (E) 104 P.S.I. to (F) 143 P.S.I.
Final Closed In Period Minutes 60 (G) 209 P.S.I.
Final Hydrostatic Pressure (H) 1730 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 Jerry Hymas
Signature of Customer or his authorized representative

Western Representative WK Hagem Thank You!
9802

FIELD INVOICE table with items: Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, TOTAL

WESTERN TESTING CO., INC.

Pressure Data

Date 5-9-85 Test Ticket No. 7250
 Recorder No. 13759 Capacity 3900 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1779</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	Mins.
C First Final Flow Pressure	<u>88</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	Mins.
D Initial Closed-in Pressure	<u>219</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	Mins.
E Second Initial Flow Pressure	<u>113</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	Mins.
F Second Final Flow Pressure	<u>147</u> P.S.I.			
G Final Closed-in Pressure	<u>221</u> P.S.I.			
H Final Hydrostatic Mud	<u>1746</u> P.S.I.			

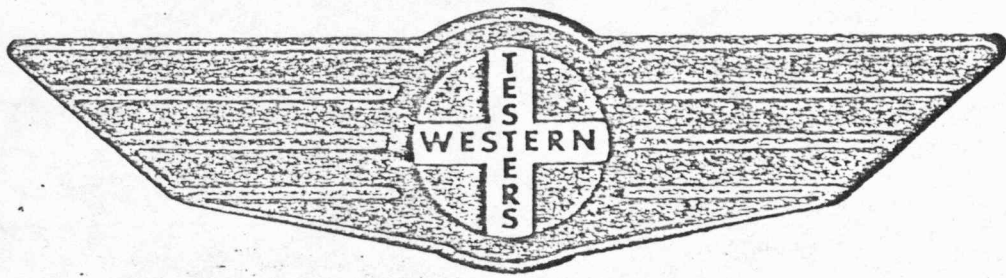
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown:	<u>7</u> Inc.	Breakdown:	<u>11</u> Inc.	Breakdown:	<u>13</u> Inc.	Breakdown:	_____ 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>35</u>	0	<u>88</u>	0	<u>113</u>	0	<u>147</u>
P 2 5	<u>44</u>	3	<u>194</u>	5	<u>113</u>	3	<u>195</u>
P 3 10	<u>56</u>	6	<u>207</u>	10	<u>113</u>	6	<u>207</u>
P 4 15	<u>70</u>	9	<u>213</u>	15	<u>115</u>	9	<u>212</u>
P 5 20	<u>78</u>	12	<u>216</u>	20	<u>119</u>	12	<u>215</u>
P 6 25	<u>84</u>	15	<u>217</u>	25	<u>123</u>	15	<u>217</u>
P 7 30	<u>88</u>	18	<u>218</u>	30	<u>127</u>	18	<u>217</u>
P 8 35		21	<u>219</u>	35	<u>131</u>	21	<u>218</u>
P 9 40		24	<u>1</u>	40	<u>135</u>	24	<u>218</u>
P10 45		27		45	<u>139</u>	27	<u>219</u>
P11 50		30	<u>219</u>	50	<u>143</u>	30	<u>219</u>
P12 55		33		55	<u>145</u>	33	<u>220</u>
P13 60		36		60	<u>147</u>	36	<u>1</u>
P14 65		39		65		39	<u>1</u>
P15 70		42		70		42	
P16 75		45		75		45	<u>220</u>
P17 80		48		80		48	<u>221</u>
P18 85		51		85		51	<u>1</u>
P19 90		54		90		54	<u>1</u>
P20 95		57		95		57	<u>1</u>
100		60		100		60	<u>221</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 CARLSON Sec. 6 Twp. 17S Rge. 3W Test No. 1 Date 5/9/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-9-85
 CUSTOMER: RANGE OIL COMPANY INC.
 WELL: 2 TEST: 1
 ELEVATION (KB): 1357 FORMATION: MAQUOKETA SH
 SECTION: 6 TOWNSHIP: 17S
 RANGE: 3W COUNTY: MCPHERSON STATE: KANSAS
 GAUGE SN #13759 RANGE: 3900 CLOCK: 12

INTERVAL TEST FROM: 3391 FT TO: 3400 FT TOTAL DEPTH: 3400 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 3386 FT SIZE: 6 3/4 IN PACKER DEPTH: 3391 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG. RIG #1
 MUD TYPE: VISCOSITY: 43
 WEIGHT: 10.2 WATER LOSS (CC): 12.6
 CHLORIDES (P.P.M.): 2400
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 3251 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
 ANCHOR LENGTH: 9 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 INCREASING
 TO FAIR BLOW; 8" IN BUCKET.
 FINAL FLOW PERIOD WEAK BLOW INCREASING TO
 BOTTOM OF BUCKET IN 58 MINUTES.

RECOVERED: 20 FT OF: FREE OIL.
 RECOVERED: 260 FT OF: MUDDY WATER.
 RECOVERED: FT OF: CHLORIDES 37000 PPM.
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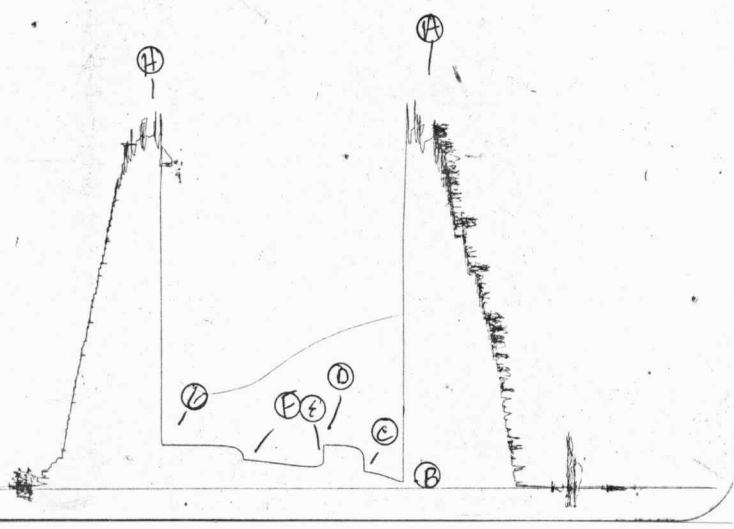
REMARKS: READ OUTSIDE CHART.
 RIG TROUBLE/RAN DST ON THE 10TH.

TIME SET PACKER(S): 5:35 PM TIME STARTED OFF BOTTOM: 8:35 PM
 WELL TEMPERATURE: 109 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 1779 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 35 PSI TO (C) 88 PSI
 INITIAL CLOSED IN PERIOD MIN: 30 (D) 219 PSI
 FINAL FLOW PERIOD MIN: 60 (E) 113 PSI TO (F) 147 PSI
 FINAL CLOSED IN PERIOD MIN: 60 (G) 221 PSI
 FINAL HYDROSTATIC PRESSURE (H) 1746 PSI

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Dist #1
King Carson

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