



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 8189

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

Elevation 1045 KB Formation Carb. Bff. Pay - Ft.

District 13 Augusta Date 7-19-85 Customer Order No. -

COMPANY NAME Range Oil Co Inc.

ADDRESS 240 Page Court 220 W Douglas Wichita, KS 67202

LEASE AND WELL NO Steward E #1 COUNTY Chautauque STATE Ka Sec 6 Twp 32 Rge 9E

Mail Invoice To Same #1 E Steward No. Copies Requested 1
Go. Name Address

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No 245 Interval Tested From 2584 ft. to 2594 ft. Total Depth 2594 ft.

Packer Depth 2584 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2579 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2496 ft. Recorder Number 13268 Cap. 4200

Bottom Recorder Depth (Outside) 2499 ft. Recorder Number 13266 Cap. 4000

Below Saddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Oil Co Inc #2 Drill Collar Length 180 I. D. 2 1/4 in.

Mud Type Chem Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss 12.8 cc. Drill Pipe Length 2384 I. D. 3.8 in.

Chlorides 1900 P.P.M. Test Tool Length 20 ft. Tool Size 5 3/8 in.

Jars: Make - Serial Number - Anchor Length 10 ft. Size 5 3/8 in.

Did Well Flow? No Reversed Out Yes. Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: Strong diminishing to weak @ end of test

Recovered 2100 ft. of Sulphur cut salt water .28 Res @ 86°F

Recovered - ft. of 55,000 PPM Chlorides

Recovered - ft. of

Recovered - ft. of

Chlorides 55,000 P.P.M. Sample Jars used 2 Remarks:

Time On Location 2:30 7:19 A.M. Time Pick Up Tool 3:15 A.M. Time Off Location Standby P.M.

Time Set Packer(s) 4:30 A.M. Time Started Off Bottom 7:36 A.M. Maximum Temperature 116

Initial Hydrostatic Pressure (A) 1260 P.S.I.

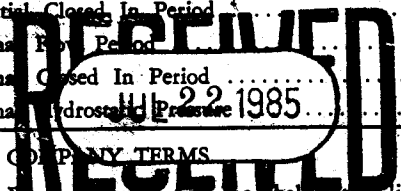
Initial Flow Period Minutes 30 (B) 425 P.S.I. to (C) 620 P.S.I.

Initial Closed In Period Minutes 30 (D) 1045 P.S.I.

Final Flow Period Minutes 60 (E) 915 P.S.I. to (F) 1045 P.S.I.

Final Closed In Period Minutes 60 (G) 1045 P.S.I.

Final Hydrostatic Pressure (H) 1330 P.S.I. (13268)



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] Norman Allen
Signature of Customer or his authorized representative

FIELD INVOICE

Open Hole Test	\$ 550
Mistrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub	\$ 35
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$

WESTERN TESTING CO., INC.

Pressure Data

Date 7-19-85 Test Ticket No. 8189
 Recorder No. 13268 Capacity 4200 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1333</u> P.S.I.		<u>4:30 A</u> M	
B First Initial Flow Pressure	<u>423</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	
C First Final Flow Pressure	<u>602</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	
D Initial Closed-in Pressure	<u>1027</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	
E Second Initial Flow Pressure	<u>912</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	
F Second Final Flow Pressure	<u>1025</u> P.S.I.			
G Final Closed-in Pressure	<u>1029</u> P.S.I.			
H Final Hydrostatic Mud	<u>1314</u> P.S.I.			

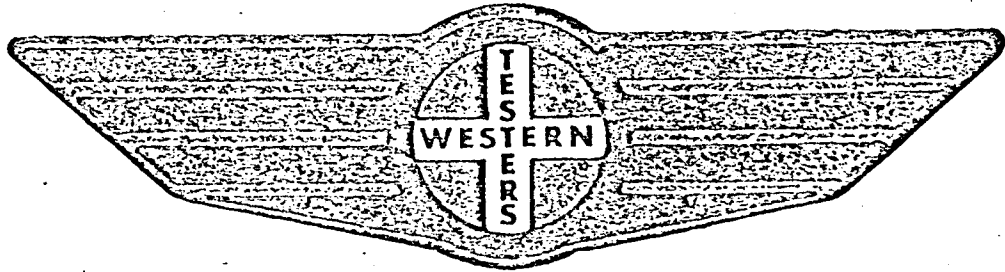
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown:	<u>7</u> Inc.	Breakdown:	<u>12</u> Inc.	Breakdown:	<u>13</u> Inc.	Breakdown:	<u>21</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>423</u>	0	<u>602</u>	0	<u>912</u>	0	<u>1025</u>
P 2 5	<u>423</u>	3	<u>989</u>	5	<u>913</u>	3	
P 3 10	<u>423</u>	6	<u>1002</u>	10	<u>930</u>	6	
P 4 15	<u>463</u>	9	<u>1008</u>	15	<u>957</u>	9	
P 5 20	<u>544</u>	12	<u>1014</u>	20	<u>981</u>	12	<u>1025</u>
P 6 25	<u>571</u>	15	<u>1017</u>	25	<u>996</u>	15	<u>1026</u>
P 7 30	<u>602</u>	18	<u>1019</u>	30	<u>1006</u>	18	
P 8 35		21	<u>1021</u>	35	<u>1016</u>	21	
P 9 40		24	<u>1023</u>	40	<u>1022</u>	24	<u>1026</u>
P10 45		27	<u>1025</u>	45	<u>1024</u>	27	<u>1027</u>
P11 50		30	<u>1026</u>	50	<u>1024</u>	30	
P12 55		33	<u>1027</u>	55	<u>1025</u>	33	
P13 60		36		60	<u>1025</u>	36	
P14 65		39		65		39	<u>1027</u>
P15 70		42		70		42	<u>1028</u>
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	<u>1028</u>
P19 90		54		90		54	<u>1029</u>
P20 95		57		95		57	<u>1029</u>
100		60		100		60	<u>1029</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. _____ #1 "E" STEWAKU _____
Sec. _____ 0 Twp. 37S Rge. 7E Test No. _____
Date _____

WESTERN TESTING CO. INC.
 SUBSURFACE PRESSURE SURVEY

DATE: 7-19-85
 CUSTOMER: RANGE OIL COMPANY INC.
 WELL: 1 TEST: 4
 ELEVATION (KB): 1045 FORMATION: ARBUCKLE
 SECTION: 6 TOWNSHIP: 32S
 RANGE: 9E COUNTY: CHAUTAUQUA STATE: KANSAS
 GAUGE SN #13268 RANGE: 4200 CLOCK: 12

INTERVAL TEST FROM: 2584 FT TO: 2594 FT TOTAL DEPTH: 2594 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 2584 FT SIZE: 6 3/4 IN PACKER DEPTH: 2579 FT SIZE: 6 3/4 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG. RIG #2
 MUD TYPE: CHEMICAL VISCOSITY: 44
 WEIGHT: 9.6 WATER LOSS (CC): 12.8
 CHLORIDES (P.P.M.): 1900
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? NO REVERSED OUT? YES
 DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 2384 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
 ANCHOR LENGTH: 10 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: STRONG BLOW DIMINISHING TO
 WEAK BLOW AT END OF TEST.

RECOVERED: 2100 FT OF: SULPHUR CUT SALT WATER
 RECOVERED: FT OF: RESISTIVITY 28% AT 86 DEGREES
 RECOVERED: FT OF: CHLORIDES 55000 PPM.
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
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 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS:

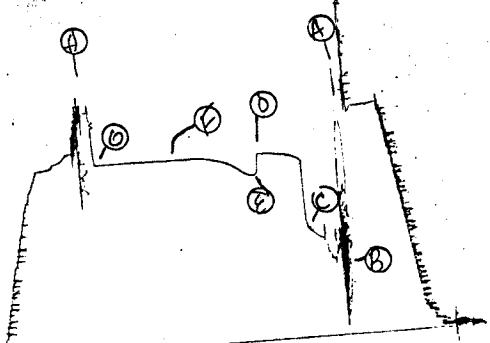
TIME SET PACKER(S): 4:30 AM TIME STARTED OFF BOTTOM: 7:30 AM
 WELL TEMPERATURE: 116 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 1333 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 423 PSI TO (C) 602 PSI
 INITIAL CLOSED IN PERIOD MIN: 33 (D) 1027 PSI
 FINAL FLOW PERIOD MIN: 60 (E) 912 PSI TO (F) 1025 PSI
 FINAL CLOSED IN PERIOD MIN: 60 (G) 1029 PSI
 FINAL HYDROSTATIC PRESSURE (H) 1314 PSI

NY # 8189
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13268

DST # 4

8189



Pl # 8189
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8189

DST # 4

13266

