



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 6273

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 1264 MB Formation MARILATCH Eff. Pay Ft.

R040

District Augusta Date 10-30-84 Customer Order No.

COMPANY NAME Range Oil Co Inc.

ADDRESS 240 Page Ct 220 W. Douglas Wichita, Ks. 67202

LEASE AND WELL NO. Eddie #5 COUNTY Cowley STATE Ks. Sec. 24 Twp. 33S Rge. 5E

Mail Invoice To Same #5 EDDIE Co. Name Address No. Copies Requested 1

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested From 2751 ft. to 2813 ft. Total Depth 2813 ft.

Packer Depth 2746 ft. Size 6.75 in. Packer Depth 2751 ft. Size 6.75 in.

Packer Depth 2751 ft. Size 6.75 in. Packer Depth 2751 ft. Size 6.75 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2771 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 2775 ft. Recorder Number 13265 Cap. 3975

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Range #2 Drill Collar Length 147 I. D. 2.25 in.

Mud Type Chem Viscosity 38 Weight Pipe Length I. D. in.

Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 2584 3.8 in.

Chlorides 1800 P.P.M. Test Tool Length 20 ft. Tool Size 5.5 in.

Jars: Make Serial Number Anchor Length 62 ft. Size 5.5 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 1.75 in. Bottom Choke Size 1.75 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 14 in.

Blow: Weak 85 min

Recovered 75 ft. of Drill Mud with few oil spots on top

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

RECEIVED
NOV 01 1984

Time On Location 4:45 A.M. Time Pick Up Tool 6:30 A.M. Time Off Location 1:30 P.M.

Time Set Packer(s) 8:15 A.M. Time Started Off Bottom 11:15 A.M. Maximum Temperature 111°

Initial Hydrostatic Pressure (A) 1405 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) 375 P.S.I.

Final Flow Period Minutes 60 (E) 60 P.S.I. to (F) 70 P.S.I.

Final Closed In Period Minutes 60 (G) 750 P.S.I.

Final Hydrostatic Pressure (H) 1405 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 TIM J. LAUER Signature of Customer or his authorized representative

Western Representative Allen Edgington 0525

FIELD INVOICE

Open Hole Test \$550.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$550.00

WESTERN TESTING CO., INC.

Pressure Data

Date: 10-30-84 Test Ticket No. 6273
 Recorder No. 560606 Capacity 3950 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1397</u> P.S.I.		M
B First Initial Flow Pressure	<u>39</u> P.S.I.	<u>30</u> Mins.	
C First Final Flow Pressure	<u>45</u> P.S.I.	<u>30</u> Mins.	
D Initial Closed-in Pressure	<u>375</u> P.S.I.	<u>60</u> Mins.	
E Second Initial Flow Pressure	<u>55</u> P.S.I.	<u>60</u> Mins.	
F Second Final Flow Pressure	<u>59</u> P.S.I.		
G Final Closed-in Pressure	<u>739</u> P.S.I.		
H Final Hydrostatic Mud	<u>1387</u> P.S.I.		

PRESSURE BREAKDOWN

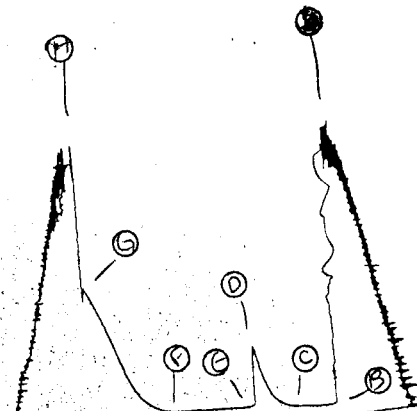
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>39</u>	0	<u>45</u>	0	<u>55</u>	0	<u>59</u>
P 2 5	<u>1</u>	3	<u>49</u>	5	<u>1</u>	3	<u>59</u>
P 3 10	<u>1</u>	6	<u>52</u>	10	<u>1</u>	6	<u>69</u>
P 4 15	<u>39</u>	9	<u>61</u>	15	<u>55</u>	9	<u>78</u>
P 5 20	<u>40</u>	12	<u>73</u>	20	<u>1</u>	12	<u>88</u>
P 6 25	<u>42</u>	15	<u>89</u>	25	<u>1</u>	15	<u>98</u>
P 7 30	<u>45</u>	18	<u>117</u>	30	<u>55</u>	18	<u>111</u>
P 8 35		21	<u>167</u>	35	<u>1</u>	21	<u>127</u>
P 9 40		24	<u>227</u>	40	<u>55</u>	24	<u>149</u>
P10 45		27	<u>316</u>	45	<u>56</u>	27	<u>183</u>
P11 50		30	<u>375</u>	50	<u>57</u>	30	<u>216</u>
P12 55		33		55	<u>58</u>	33	<u>261</u>
P13 60		36		60	<u>59</u>	36	<u>322</u>
P14		39		65		39	<u>384</u>
P15		42		70		42	<u>440</u>
P16		45		75		45	<u>498</u>
P17		48		80		48	<u>552</u>
P18		51		85		51	<u>604</u>
P19		54		90		54	<u>655</u>
P20		57				57	<u>699</u>
		60				60	<u>739</u>

HC# 6273

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6273

5666



KK# 6273

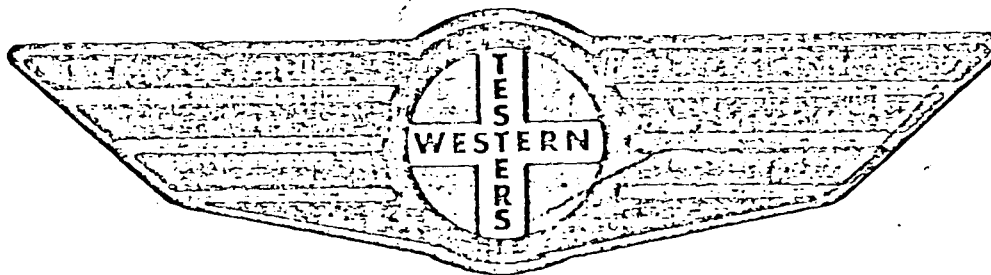
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13265



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 10/30/84
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 5 TEST: 1
ELEVATION (KB): 1264 FORMATION: MARMATON
SECTION: 24 TOWNSHIP: 33S
RANGE: 5E COUNTY: COWLEY STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 2751 FT TO: 2813 FT TOTAL DEPTH: 2813 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2746 FT SIZE: 6 3/4 IN PACKER DEPTH: 2751 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 38
WEIGHT: 9.4 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 1800
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 147 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2584 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 62 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 BLOW FOR 85 MINUTES.

RECOVERED: 75 FT OF: DRILLING MUD WITH A FEW OIL SPOTS ON TOP.
RECOVERED: FT OF:
RECOVERED: FT OF:
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RECOVERED: FT OF:
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RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 8:15 AM TIME STARTED OFF BOTTOM: 11:15 AM
WELL TEMPERATURE: 111 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1397 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 39 PSI TO (C) 45 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 375 PSI
FINAL FLOW PERIOD MIN: 60 (E) 55 PSI TO (F) 59 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 739 PSI
FINAL HYDROSTATIC PRESSURE (H) 1387 PSI

