



WESTERN TESTING CO., INC.

P.O. BOX 1599 — WICHITA, KANSAS 67201

DATE 11/24/84

RANGE OIL COMPANY, INC.
240 PAGE COURT
220 W. DOUGLAS
WICHITA, KANSAS 67202

WELL REPORT NO. 6360
UNIT NO.
DISTRICT 13

FOR CUSTOMER'S USE ONLY

REGISTER NO.	VOUCHER NO.
TERMS APPROVED	PRICE APPROVED
CALCULATIONS CHECKED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

YOUR ORDER NO.	OWNER	CONTRACTOR		
WELL NO.	FARM	SECTION	TWP.	RANGE
	COCHRAN	ELK	26	31S 10E

DRILL STEM TEST FROM 1624' TO 1703' TOTAL DEPTH 1703' (TEST 1) \$ 550.00
550.00
YOUR QUANTITY DISCOUNT ON THIS TEST 55.00
TOTAL \$ 495.00

DISCOUNT

\$ 4.95

1% DISCOUNT ALLOWED ON THIS INVOICE IF PAID BY THE 20TH OF THE FOLLOWING MONTH.

PLEASE INCLUDE OUR INVOICE NUMBER WITH YOUR REMITTANCE

INVOICE NUMBER

6360

SEND ALL REMITTANCES TO POST OFFICE BOX 1599, WICHITA, KANSAS 67201



WESTERN TESTING CO., INC.
FORMATION TESTING

Call OK
TICKET No 6360

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

Elevation 10955L Formation Mt Scott Eff. Pay Ft.

District 13 Augusta Date 11-24-85 Customer Order No.
COMPANY NAME Range Oil Co Inc. 240 Page Court
ADDRESS 220 West Douglas
LEASE AND WELL NO. Cochran #1 COUNTY Elk STATE Ok Sec. 26 Twp. 31S Rge. 10E
Mail Invoice To Same Co. Name Address No. Copies Requested 1
Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested From 1624 ft. to 1703 ft. Total Depth 1703 ft.
Packer Depth 1624 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 1619 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 1628 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 1634 ft. Recorder Number 2605 Cap. 4150
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor RDC#1 Drill Collar Length 120 I. D. 2.25 in.
Mud Type Chem Viscosity 41 Weight Pipe Length I. D. in.
Weight 9.8 Water Loss N/A Drill Pipe Length 1484 I. D. 3.8 in.
Chlorides N/A P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make No Serial Number Anchor Length 79 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 x 4 in.

Blow: WR blow died 5 min, surge as tool opened no flow

Recovered 85 ft. of muddy salt water
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks:

RECEIVED
NOV 27 1985
One chart

Time On Location 7:00 A.M. Time Pick Up Tool A.M. Time Off Location A.M.
P.M. P.M. P.M.
Time Set Packer(s) A.M. Time Started Off Bottom A.M. Maximum Temperature 90
P.M. P.M.
Initial Hydrostatic Pressure (A) 878 P.S.I.
Initial Flow Period Minutes 30 (B) 30 P.S.I. to (C) 37 P.S.I.
Initial Closed In Period Minutes 30 (D) 477 P.S.I.
Final Flow Period Minutes 30 (E) 53 P.S.I. to (F) 53 P.S.I.
Final Closed In Period Minutes 30 (G) 439 P.S.I.
Final Hydrostatic Pressure (H) 878 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: [Signature]
Signature of Customer or his authorized representative
Western Representative: [Signature]
11 27

FIELD INVOICE
Open Hole Test \$ 550
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: 11/24/85 Test Ticket No. 6360
 Recorder No. 3474 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>833</u>	P.S.I.		M
B First Initial Flow Pressure	<u>24</u>	P.S.I.	<u>30</u> Mins.	_____ Mins.
C First Final Flow Pressure	<u>35</u>	P.S.I.	<u>30</u> Mins.	_____ Mins.
D Initial Closed-in Pressure	<u>473</u>	P.S.I.	<u>30</u> Mins.	_____ Mins.
E Second Initial Flow Pressure	<u>51</u>	P.S.I.	<u>30</u> Mins.	_____ Mins.
F Second Final Flow Pressure	<u>57</u>	P.S.I.		
G Final Closed-in Pressure	<u>447</u>	P.S.I.		
H Final Hydrostatic Mud	<u>815</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 12 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 11 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>24</u>	0	<u>35</u>	0	<u>51</u>	0	<u>57</u>
P 2 5	<u>24</u>	3	<u>176</u>	5	<u>1</u>	3	<u>183</u>
P 3 10	<u>24</u>	6	<u>317</u>	10	<u>51</u>	6	<u>294</u>
P 4 15	<u>26</u>	9	<u>373</u>	15	<u>52</u>	9	<u>350</u>
P 5 20	<u>30</u>	12	<u>400</u>	20	<u>53</u>	12	<u>379</u>
P 6 25	<u>34</u>	15	<u>418</u>	25	<u>55</u>	15	<u>397</u>
P 7 30	<u>35</u>	18	<u>433</u>	30	<u>57</u>	18	<u>411</u>
P 8 35		21	<u>443</u>	35		21	<u>421</u>
P 9 40		24	<u>453</u>	40		24	<u>432</u>
P10 45		27	<u>460</u>	45		27	<u>439</u>
P11 50		30	<u>467</u>	50		30	<u>447</u>
P12 55		33	<u>473</u>	55		33	
P13 60		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

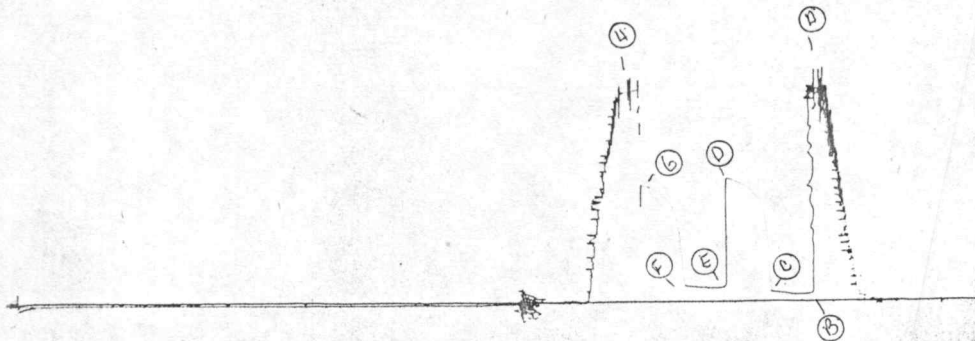
TKT # 6360

DST # 1

3474

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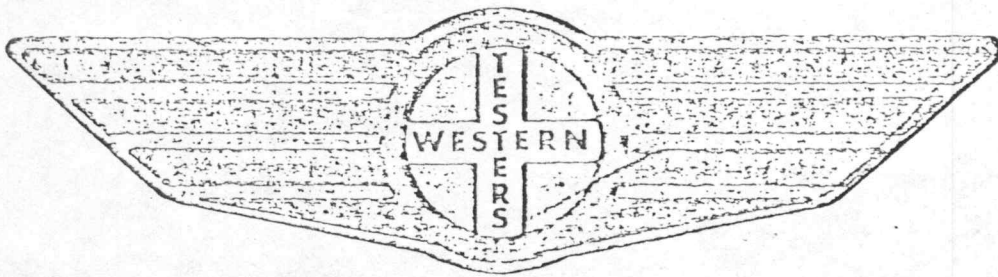
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RANGE OIL COMPANY, INC. Lease and Well No. #1 COCHRAN Sec. 26 Twp. 31S Rge. 10E Test No. 1 Date 1/24/8.

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/24/84 TICKET #6360
CUSTOMER: RANGE OIL COMPANY INC. LEASE: COCHRAN
WELL: #1 TEST: 1 GEOLOGIST: BAKER
ELEVATION (KB): 1100 FORMATION: FT SCOTT
SECTION: 26 TOWNSHIP: 31S
RANGE: 10E COUNTY: ELK STATE: KANSAS
GAUGE SN #3474 RANGE: 3000 CLOCK: 12

INTERVAL TEST FROM: 1624 FT TO: 1703 FT TOTAL DEPTH: 1703 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1624 FT SIZE: 6 3/4 IN PACKER DEPTH: 1619 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: R D C
MUD TYPE: CHEM VISCOSITY: 41
WEIGHT: 9.8 WATER LOSS (CC): N/A
CHLORIDES (P.P.M.): N/A
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1484 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 79 FT SIZE: 5 1/2 O.D. 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 DEAD IN 5 MINUTES.
SURGE AS TOOL OPENED THEN NO BLOW.

RECOVERED: 85 FT OF: MUDDY SALT WATER.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: ONE CHART.

TIME SET PACKER(S): TIME STARTED OFF BOTTOM:
WELL TEMPERATURE: 90 °F
INITIAL HYDROSTATIC PRESSURE: (A) 833 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 24 PSI TO (C) 35 PSI
INITIAL CLOSED IN PERIOD MIN: 33 (D) 473 PSI
FINAL FLOW PERIOD MIN: 30 (E) 51 PSI TO (F) 57 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 447 PSI
FINAL HYDROSTATIC PRESSURE (H) 815 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 6361

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

Elevation 1100 Kb Formation Mass Eff. Pay Ft.

131
District Augusta Date 11-26-84 Customer Order No.
COMPANY NAME Brown Oil Co. Inc
ADDRESS 220 West Douglas 240 Page Court
LEASE AND WELL NO. COUNTY Elk STATE KS Sec. 26 Twp. 8 Rge. 10 E
Mail Invoice To Same Co. Name Address No. Copies Requested 1
Mail Charts To Same Address No. Copies Requested 5

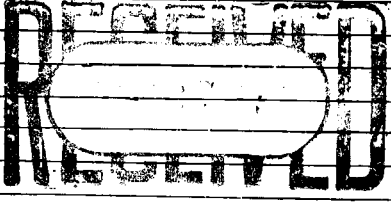
Formation Test No. 2 Interval Tested From 2004 ft. to 2022 ft. Total Depth 2022 ft.
Packer Depth 2004 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 1999 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 2008 ft. Recorder Number 3474 Cap. 2000
Bottom Recorder Depth (Outside) 2015 ft. Recorder Number 2007 Cap. 4100
Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor BOC # 2 Drill Collar Length 120 I. D. 2 25 in.
Mud Type Water Viscosity 45 Weight Pipe Length I. D. in.
Weight 7.7 Water Loss 1.6 cc. Drill Pipe Length 1804 I. D. in.
Chlorides 1600 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make MC Serial Number Anchor Length 18 ft. Size 5 1/2 in.
Did Well Flow? NO Reversed Out 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 in.

Blow: Very w. & died 15 min, no blow second flow

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



Time On Location 11:45 A.M. Time Pick Up Tool P.M. Time Off Location P.M.
Time Set Packer(s) 4:20 A.M. Time Started Off Bottom 6:20 A.M. Maximum Temperature 99 P.M.
Initial Hydrostatic Pressure (A) 1060 P.S.I.
Initial Flow Period Minutes 30 (B) 15 P.S.I. to (C) 15 P.S.I.
Initial Closed In Period Minutes 30 (D) 15 P.S.I.
Final Flow Period Minutes 30 (E) 15 P.S.I. to (F) 15 P.S.I.
Final Closed In Period Minutes 30 (G) 15 P.S.I.
Final Hydrostatic Pressure (H) 1060 P.S.I.

COMPANY TERMS
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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
Western Representative [Signature]

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

1127

WESTERN TESTING CO., INC.

Pressure Data

Date: 11/26/84 Test Ticket No. 6361
 Recorder No. 3474 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1068</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>16</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	_____ Mins.
C First Final Flow Pressure	<u>16</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	_____ Mins.
D Initial Closed-in Pressure	<u>16</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	_____ Mins.
E Second Initial Flow Pressure	<u>16</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	_____ Mins.
F Second Final Flow Pressure	<u>16</u> P.S.I.			
G Final Closed-in Pressure	<u>16</u> P.S.I.			
H Final Hydrostatic Mud	<u>1068</u> P.S.I.			

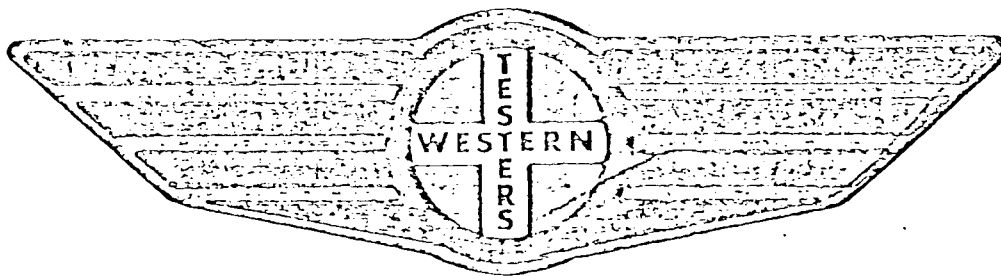
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>11</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	<u>16</u>	0	<u>16</u>	0	<u>16</u>	0	<u>16</u>
P 2		3		5		3	
P 3		6		10		6	
P 4	<u>16</u>	9		15	<u>16</u>	9	
P 5		12		20		12	
P 6		15	<u>16</u>	25		15	<u>16</u>
P 7	<u>16</u>	18		30	<u>16</u>	18	
P 8		21		35		21	
P 9		24		40		24	
P 10		27		45		27	
P 11		30	<u>16</u>	50		30	<u>16</u>
P 12		33		55		33	
P 13		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

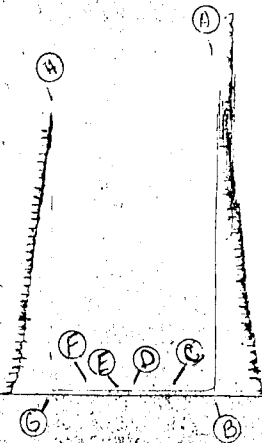
Company RANGE OIL COMPANY, INC. Lease and Well No. #1 COCHRAN Sec. 26 Twp. 31S Rge. 10E Test No. 2 Date 1/26/87

TKT # 60361

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3474

DST # 2

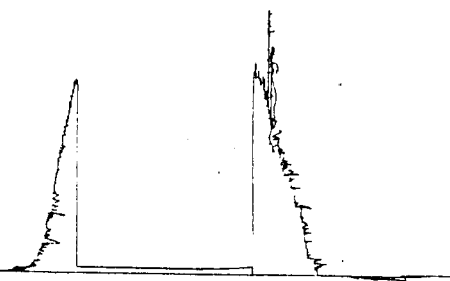


TKT # 6361

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2605

DST #2





WESTERN TESTING CO., INC.
FORMATION TESTING

726

TICKET N° 6362

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

Elevation 1100 Kb Formation miss Eff. Pay Ft.

COMPANY NAME Range Oil Co Inc
ADDRESS 220 West Douglas
LEASE AND WELL NO Cochran #1 COUNTY Elk STATE Ka
Mail Invoice To Same Co. Name Address No. Copies Requested 1
Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 3 Interval Tested From 2022 ft. to 2038 ft. Total Depth 2038 ft.
Packer Depth 2022 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 2017 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Top Recorder Depth (Inside) 2023 ft. Recorder Number 3474 Cap 3000
Bottom Recorder Depth (Outside) 2028 ft. Recorder Number 2605 Cap 4150
Below Straddle Recorder Depth ft. Recorder Number Cap

Drilling Contractor RDC #2
Mud Type Chem Viscosity 45
Weight 9.9 Water Loss 11.4 cc.
Chlorides 1600 P.P.M.
Jars: Make W0 Serial Number
Did Well Flow? 270 Reversed Out
Drill Collar Length 120 I. D. 2.25 in.
Weight Pipe Length I. D. in.
Drill Pipe Length 1882 I. D. 3.8 in.
Test Tool Length 20 ft. Tool Size 5 1/2 in.
Anchor Length 16 ft. Size 5 1/2 in.
Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.

Blow: 0755 min
Recovered 135 ft. of muddy salt water
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides 57000 P.P.M. Sample Jars used Remarks: One chart

Chart # 2605
Time On Location 12:00 A.M. Time Pick Up Tool 12:00 P.M. Time Off Location A.M. P.M.
Time Set Packer(s) 1:05 A.M. P.M. Time Started Off Bottom 4:05 A.M. P.M. Maximum Temperature 100
Initial Hydrostatic Pressure (A) 1022 P.S.I.
Initial Flow Period Minutes 30 (B) 45 P.S.I. to (C) 45 P.S.I.
Initial Closed In Period Minutes 30 (D) 628 P.S.I.
Final Flow Period Minutes 20 (E) 45 P.S.I. to (F) 60 P.S.I.
Final Closed In Period Minutes 60 (G) 628 P.S.I.
Final Hydrostatic Pressure (H) 1022 P.S.I.

COMPANY TERMS
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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 of Customer or his authorized representative
Western Representative: Kenny Kunkel

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



Nº 3468

GAS FLOW REPORT

Date 11-26-84 Ticket 6302 Company Range Out Com. Inc
 Well Name and No. 2002038 Dst No. 3 Interval Tested 2022-2038
 County Ellis State KS Sec. 26 Twp. 31 Rg. 10A

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

					57,700
10	27	1/4			57,700
15	27	1/4			57,700
20	27	1/4			57,700
25	27	1/4			57,700
30	27	1/4			57,700

SECOND FLOW

10	27	1/4			57,700
20	11	11			"
30	11	11			"
40	11	11			"
50	11	11			"
60	11	11			"

GAS BOTTLE

Serial No. 607 Date Bottle Filled 11-27-84 Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Range Out Com. Inc
 Authorized by [Signature]

WESTERN TESTING CO., INC.

Pressure Data

Date: 11/20/84 Test Ticket No. 63102
 Recorder No. 3474 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1063</u>	P.S.I.		M
B First Initial Flow Pressure	<u>45</u>	P.S.I.	<u>30</u> Mins.	_____ Mins.
C First Final Flow Pressure	<u>56</u>	P.S.I.	<u>30</u> Mins.	_____ Mins.
D Initial Closed-in Pressure	<u>648</u>	P.S.I.	<u>60</u> Mins.	_____ Mins.
E Second Initial Flow Pressure	<u>48</u>	P.S.I.	<u>60</u> Mins.	_____ Mins.
F Second Final Flow Pressure	<u>73</u>	P.S.I.		
G Final Closed-in Pressure	<u>647</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1063</u>	P.S.I.		

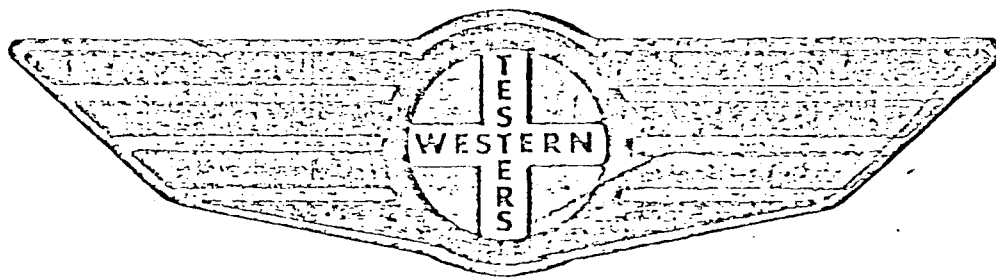
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>9</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>22</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	<u>45</u>	0	<u>56</u>	0	<u>48</u>	0	<u>73</u>
P 2	<u>45</u>	3	<u>544</u>	5	<u>48</u>	3	<u>458</u>
P 3	<u>45</u>	6	<u>609</u>	10	<u>51</u>	6	<u>598</u>
P 4	<u>45</u>	9	<u>626</u>	15	<u>55</u>	9	<u>615</u>
P 5	<u>45</u>	12	<u>635</u>	20	<u>59</u>	12	<u>624</u>
P 6	<u>47</u>	15	<u>639</u>	25	<u>63</u>	15	<u>630</u>
P 7	<u>50</u>	18	<u>641</u>	30	<u>66</u>	18	<u>632</u>
P 8	<u>53</u>	21	<u>643</u>	35	<u>68</u>	21	<u>634</u>
P 9	<u>56</u>	24	<u>645</u>	40	<u>69</u>	24	<u>636</u>
P10		27	<u>647</u>	45	<u>70</u>	27	<u>638</u>
P11		30	<u>648</u>	50	<u>71</u>	30	<u>639</u>
P12		33		55	<u>72</u>	33	<u>640</u>
P13		36		60	<u>73</u>	36	<u>641</u>
P14		39		65		39	<u>642</u>
P15		42		70		42	<u>643</u>
P16		45		75		45	<u>644</u>
P17		48		80		48	<u>645</u>
P18		51		85		51	<u>646</u>
P19		54		90		54	<u>646</u>
P20		57				57	<u>647</u>
		60				60	<u>647</u>
						63	<u>647</u>

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11/26/84 TICKET #6362
CUSTOMER: RANGE OIL COMPANY INC. LEASE: COCHRAN
WELL: #1 TEST: 3 GEOLOGIST: BAKER
ELEVATION (KB): 1100 FORMATION: MISS
SECTION: 26 TOWNSHIP: 31S
RANGE: 10E COUNTY: ELK STATE: KANSAS
GAUGE SN #3474 RANGE: 3000 CLOCK: 12

INTERVAL TEST FROM: 2022 FT TO: 2038 FT TOTAL DEPTH: 2038 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2022 FT SIZE: 6 3/4 IN PACKER DEPTH: 2017 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: R D C
MUD TYPE: CHEM VISCOSITY: 45
WEIGHT: 9.9 WATER LOSS (CC): 11.6
CHLORIDES (P.P.M.): 1600
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? GAS REVERSED OUT?
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1882 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 16 FT SIZE: 5 1/2 O.D. 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: GAS TO SURFACE IN 5 MINUTES.

RECOVERED: 135 FT OF: MUDDY SALT WATER. CHLORIDES 57000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: ONE CHART.
SEE ATTACHED GAS SHEET.

TIME SET PACKER(S): 1:05 A.M. TIME STARTED OFF BOTTOM: 4:05 A.M.
WELL TEMPERATURE: 100 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1063 PSI
INITIAL FLOW PERIOD MIN: 40 (B) 45 PSI TO (C) 56 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 648 PSI
FINAL FLOW PERIOD MIN: 60 (E) 48 PSI TO (F) 73 PSI
FINAL CLOSED IN PERIOD MIN: 63 (G) 647 PSI
FINAL HYDROSTATIC PRESSURE (H) 1063 PSI

WESTERN TESTING COMPANY INC.
GAS FLOW REPORT

DATE: 11/26/84
CUSTOMER: RANGE OIL COMPANY INC.
WELL: #1
ELEVATION (KB): 1100
SECTION: 26
RANGE: 10E
GAUGE SN #3474

TEST: 3
FORMATION: MISS
TOWNSHIP: 31S
COUNTY: ELK
RANGE: 3000

TICKET #6362
LEASE: COCHRAN
GEOLOGIST: BAKER
STATE: KANSAS
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

10	MERLA	1/4	27 PSIG	57700 CFPD
15		▪	▪	▪
20		▪	▪	▪
25		▪	▪	▪
30		▪	▪	▪

SECOND FLOW

10	MERLA	1/4	27 PSIG	57700 CFPD
20		▪	▪	▪
30		▪	▪	▪
40		▪	▪	▪
50		▪	▪	▪
60		▪	▪	▪

GAS BOTTLE SN #: 607
DATE BOTTLE FILLED: 11/27/84
DATE TO BE INVOICED: 11/28/84

TKT # 63602

3474
DS#3

