



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 8173

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

Elevation 1287 Kb Formation Mus Eff. Pay Ft.

WICHITA, KANSAS 67201

COMPANY NAME Range Oil Co Inc Date 5-25-85 Customer Order No. 240 Page Count
ADDRESS 220 West Douglas Wichita Ks
LEASE AND WELL NO. turtle #1 COUNTY Sedg STATE Ks Sec. 19 Twp. 29S Rge. 1E
Mail Invoice To Same #1 Turtle No. Copies Requested 1
Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested From 3321 ft. to 3329 ft. Total Depth 3329 ft.
Packer Depth 3321 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3316 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 3322 ft. Recorder Number 3474 Cap. 3000
Bottom Recorder Depth (Outside) 3326 ft. Recorder Number 2605 Cap. 4150
Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Rig #2 Drill Collar Length 150 I. D. 2.25 in.
Mud Type Chem Viscosity 47 Weight Pipe Length I. D. in.
Weight 10.2 Water Loss 15.8 cc. Drill Pipe Length 3151 I. D. 3.8 in.
Chlorides 10,000 P.P.M. Test Tool Length 20 ft. Tool Size 6 1/2 in.
Jars: Make WJ Serial Number Anchor Length 8 ft. Size 5 1/2 in.
Did Well Flow? gas Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 1 7/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.

Blow: good blow first flow, good blow second flow 6+5 28 min second flow

Recovered 20 ft. of mud
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks: See All gas flow report # 3472

Time On Location 3:00 A.M. Time Pick Up Tool 4:00 P.M. Time Off Location P.M.
Time Set Packer(s) A.M. Time Started Off Bottom P.M. Maximum Temperature 112°
Initial Hydrostatic Pressure (A) 1766 P.S.I.
Initial Flow Period Minutes 30 (B) 37 P.S.I. to (C) 22 P.S.I.
Initial Closed In Period Minutes 30 (D) 1257 P.S.I.
Final Flow Period Minutes 90 (E) 37 P.S.I. to (F) 22 P.S.I.
Final Closed In Period Minutes 60 (G) 1363 P.S.I.
Final Hydrostatic Pressure (H) 1766 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 Stephen M. Keirle
Signature of Customer or his authorized representative

Western Representative Kenny Kendrick

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 \$



GAS FLOW REPORT

N^o 3472

Date 5-25-85 Ticket 8173 Company Range Oil Co Inc
 Well Name and No. turkel # 1 Dst No. 1 Interval Tested 3324 - 3329
 County Sedg State Ks Sec. 19 Twp. 29 Rg. 1

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

SECOND FLOW

	<i>IOW</i>				
30	16	1/2			25,100
35	3	1/2			10,900
40	16	1/4			6,720
45	28	1/4			8,890
50	32	1/4			9,500
55	32 34	1/4			9,790
60	4	1/2			12,500
65	4	1/2			12,500
70	4	1/2			12,500
75	4	1/2			12,500
80	4	1/2			12,500
85	4	1/2			12,500
90	4	1/2			12,500

GAS BOTTLE

Serial No. 618 Date Bottle Filled 5-25-85 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.

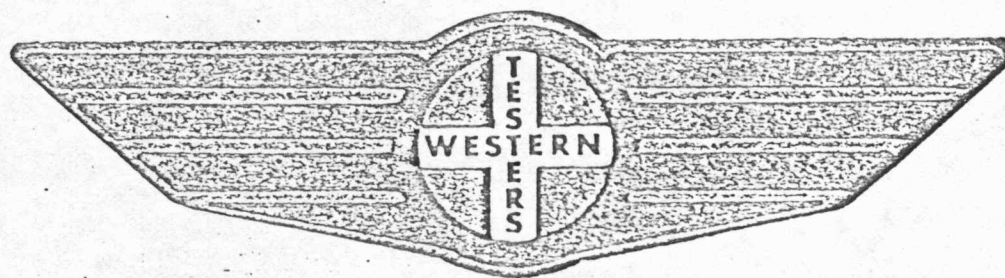
COMPANY'S NAME

Authorized by

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 TUKKLE _____ Sec. 19 Twp. 29S Rge. 1E Test No. 1 Date 5/25/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-25-85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 1
ELEVATION (KB): 1287 FORMATION: MISSISSIPPI
SECTION: 19 TOWNSHIP: 29S
RANGE: 1E COUNTY: SEDGEWICK STATE: KANSAS
GAUGE SN #3474 RANGE: 3000 CLOCK: 12

INTERVAL TEST FROM: 3321 FT TO: 3329 FT TOTAL DEPTH: 3329 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3321 FT SIZE: 6 3/4 IN PACKER DEPTH: 3316 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: 47
WEIGHT: 10.2 WATER LOSS (CC): 15.8
CHLORIDES (P.P.M.): 10000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? GAS REVERSED OUT?
DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3151 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 8 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 GOOD BLOW.
FINAL FLOW PERIOD GOOD BLOW;
GTS 20 MINUTES.

RECOVERED: 20 FT OF: MUD.
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: SEE ATTACHED GAS FLOW REPORT.

TIME SET PACKER(S):
WELL TEMPERATURE: 112 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1796 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 38 PSI TO (C) 23 PSI
INITIAL CLOSED IN PERIOD MIN: 33 (C) 1259 PSI
FINAL FLOW PERIOD MIN: 95 (E) 33 PSI TO (F) 20 PSI
FINAL CLOSED IN PERIOD MIN: 66 (G) 1372 PSI
FINAL HYDROSTATIC PRESSURE (H) 1766 PSI

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 5-25-85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 1
ELEVATION (KB): 1287 FORMATION: MISSISSIPPI
SECTION: 19 TOWNSHIP: 29S
RANGE: 1E COUNTY: SEDGEWICK STATE: KANSAS
GAUGE SN #3474 RANGE: 3000 CLOCK: 12

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

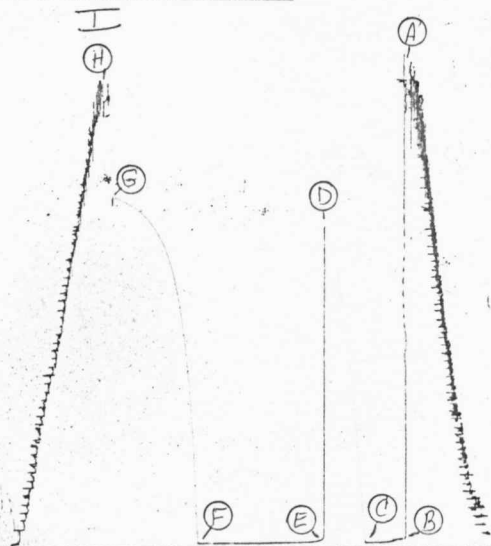
SECOND FLOW

30	MERLA	1/2 IN	16 PSIG	25100 CFPD
35			3	10900
40		1/4 IN	16	6720
45			28	8890
50			32	9500
55			34	9790
60		1/2 IN	4	12500
65			4	12500
70			4	12500
75			4	12500
80			4	12500
85			4	12500
90			4	12500

GAS BOTTLE SN #: 618
DATE BOTTLE FILLED: 5-25-85
DATE TO BE INVOICED:

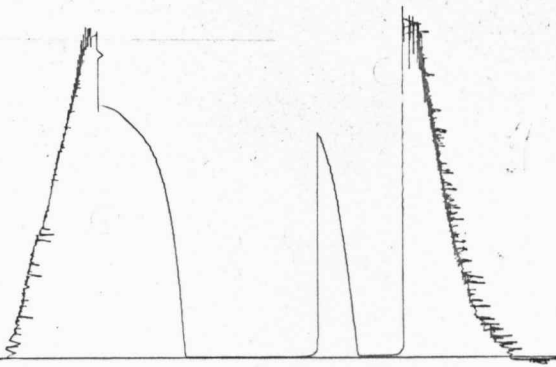
3474
DSt#1

TKT # 8173



TKT # 8173

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 8462

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

Elevation 1287 K.B. Formation Miss Eff. Pay Ft.

WICHITA, KANSAS 67201

District PRATT Date 5-26-85 Customer Order No.

COMPANY NAME RANGE OIL Co. Inc.

ADDRESS 240 PAUL COURT 220 West Douglas, Wichita, Ks 67202

LEASE AND WELL NO. TURKLE #1 COUNTY Sedg STATE Ks Sec. 19 Twp. 29S Rge. 1E

Mail Invoice To SAME #1 TURKLE No. Copies Requested 26

Co. Name Address No. Copies Requested 26

Mail Charts To SAME Address

Formation Test No. 2 Interval Tested From 3350 ft. to 3395 ft. Total Depth 3395 ft.

Packer Depth 3345 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3350 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3353 ft. Recorder Number 13221 Cap. 4450

Bottom Recorder Depth (Outside) 3356 ft. Recorder Number 13551 Cap. 4150

Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor RANGE Drk Rig #2 Drill Collar Length 115 I. D. 2.25 in.

Mud Type chem Viscosity 44 Weight Pipe Length — I. D. — in.

Weight 9.9 Water Loss 15.8 cc. Drill Pipe Length 3215 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 45 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 1/8 in. Tool Joint Size 4 1/2 FN in.

Blow: Weak blow through out initial flow. Weak blow slowly decreasing on final flow

Recovered 250 ft. of Very slightly gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

Time On Location 10:00 A.M. Time Pick Up Tool 10:45 P.M. Time Off Location 11° A.M.

Time Set Packer(s) 12:05 A.M. Time Started Off Bottom 3:05 P.M. Maximum Temperature 119°

Initial Hydrostatic Pressure (A) 1883 P.S.I.

Initial Flow Period Minutes 30 (B) 146 P.S.I. to (C) 123 P.S.I.

Initial Closed In Period Minutes 30 (D) 1350 P.S.I.

Final Flow Period Minutes 60 (E) 202 P.S.I. to (F) 168 P.S.I.

Final Closed In Period Minutes 60 (G) 1395 P.S.I.

Final Hydrostatic Pressure MAY 28 1985 (H) 1783 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 Stephen M. Keidler

Signature of Customer or his authorized representative

Western Representative Mike Litt Thank You!

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 \$

Pressure Data

Test Ticket No. 8462

Capacity

Location _____, Ft _____

Well Temperature _____ °F

	Time Given	Time Computed
Open Tool		M
First Flow Pressure	30	25 Mins.
Initial Closed-in Pressure	30	30 Mins.
Second Flow Pressure	60	60 Mins.
Final Closed-in Pressure	60	63 Mins.

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

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

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 23 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	1109
3	223
6	631
9	990
12	1135
15	1205
18	1254
21	1286
24	1310
27	1333
30	1348
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Point Minutes	Press.
0	172
5	
10	
15	
20	
25	
30	
35	
40	
45	172
50	5
55	
60	172
65	
70	
75	
80	
85	
90	
95	
100	

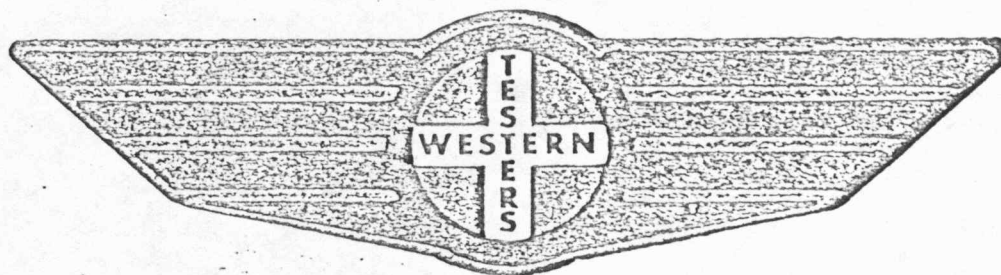
Point Minutes	Press.
0	172
3	239
6	431
9	723
12	925
15	1040
18	1112
21	1161
24	1190
27	1221
30	1243
33	1263
36	1278
39	1297
42	1315
45	1328
48	1341
51	1353
54	1362
57	1368
60	1375

63 1383

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 HURKLE _____ Sec. _____ Twp. _____ Rge. _____ Test No. _____ Date _____

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-26-85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 2
ELEVATION (KB): 1287 FORMATION: MISSISSIPPI
SECTION: 19 TOWNSHIP: 29S
RANGE: 1E COUNTY: SEDGEWICK STATE: KANSAS
GAUGE SN #13221 RANGE: 4450 CLOCK: 12

INTERVAL TEST FROM: 3350 FT TO: 3395 FT TOTAL DEPTH: 3395 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3345 FT SIZE: 6 5/8 IN PACKER DEPTH: 3350 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG. RIG #2
MUD TYPE: CHEMICAL VISCOSITY: 44
WEIGHT: 9.9 WATER LOSS (CC): 15.8
CHLORIDES (P.P.M.): 10000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 115 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3215 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/20 OD IN
ANCHOR LENGTH: 45 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 FH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW.
FINAL FLOW PERIOD WEAK BLOW
SLOWLY DECREASING.
?

RECOVERED: 250	FT	OF: VERY SLIGHTLY GAS CUT MUD.
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:

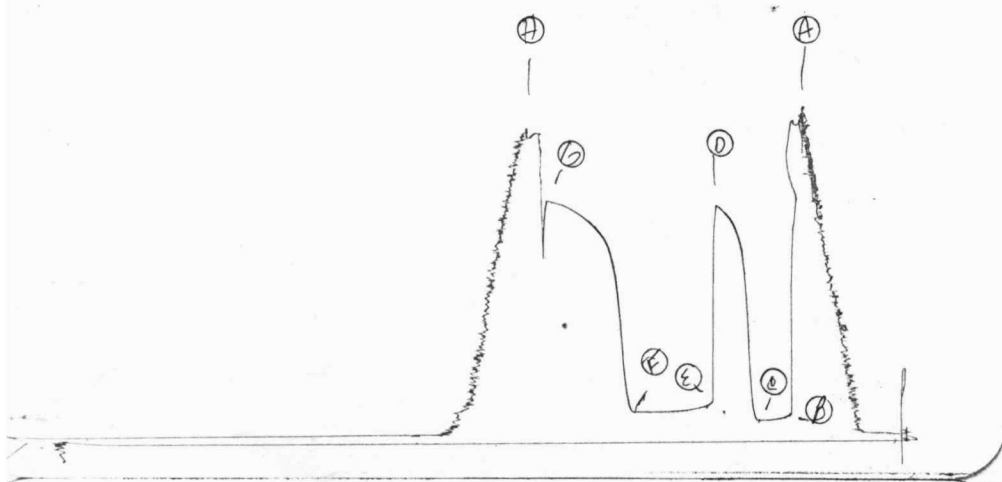
TIME SET PACKER(S): 12:05 AM	TIME STARTED OFF BOTTOM: 3:05 AM
WELL TEMPERATURE: 119 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 1852 PSI
INITIAL FLOW PERIOD MIN: 25	(B) 119 PSI TO (C) 119 PSI
INITIAL CLOSED IN PERIOD MIN: 30	(D) 1348 PSI
FINAL FLOW PERIOD MIN: 60	(E) 172 PSI TO (F) 172 PSI
FINAL CLOSED IN PERIOD MIN: 63	(G) 1383 PSI
FINAL HYDROSTATIC PRESSURE	(H) 1774 PSI

TICKET #8462
LEASE: TURKLE
GEOLOGIST: S.M. KREIDLER
MISSISSIPPI
29S
STATE: KANSAS
CLOCK: 12

TUAL
MIN
MIN
MIN
MIN

RE	FINAL MIN	SHUT-IN PRESSURE
72	0	172
72	3	239
72	6	431
72	9	723
72	12	925
72	15	1040
72	18	1112
72	21	1161
72	24	1190
72	27	1221
72	30	1243
72	33	1263
72	36	1278
	39	1297
	42	1315
	45	1328
	48	1341
	51	1353
	54	1362
	57	1368
	60	1375
	63	1383

St # 8462
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1355! D37#2

St # 8462
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