WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 6182

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

Elevation 1509 KB Formation Paw nee Eff. Pay Ft.

8040 B District Augusta Date 8-3-85 Customer Order No.

COMPANY NAME Range Oil Co Inc

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

LEASE AND WELL NO. Wehrman #3 COUNTY Butler STATE KS Sec. 31 Twp. 29S Rge. 8E

Mail Invoice To #2 Wehrman (Co. Name) Same (Address) No. Copies Requested 1

Mail Charts To Same (Address) No. Copies Requested 5

Formation Test No. 1 Interval Tested From 2448 ft. to 2480 ft. Total Depth 2480 ft.

Packer Depth 2443 ft. Size 6.75 in. Packer Depth ft. Size in.

Packer Depth 2448 ft. Size 6.75 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2491 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 2475 ft. Recorder Number 5351 Cap. 4000

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Range #2 Drill Collar Length 180 I. D. 2.25 in.

Mud Type Chem Viscosity 35 Weight Pipe Length — I. D. in.

Weight 9.5 Water Loss 13.6 cc. Drill Pipe Length 2248 I. D. 3.8 in.

Chlorides 1000 P.P.M. Test Tool Length 20 ft. Tool Size 5.5 in.

Jars: Make — Serial Number Anchor Length 32 ft. Size 5.5 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size .75 in. Bottom Choke Size .75 in.

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

Blow: Very weak 10 Min

Recovered 1 ft. of Drill Mud with few oil spots

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

Time On Location 11:00 A.M. Time Pick Up Tool 11:30 A.M. Time Off Location 4:30 P.M.

Time Set Packer(s) 1:00 P.M. Time Started Off Bottom 3:00 P.M. Maximum Temperature 107

Initial Hydrostatic Pressure			(A) 1225	P.S.I.	
Initial Flow Period	Minutes 30	(B) 20	P.S.I. to (C)	20	P.S.I.
Initial Closed In Period	Minutes 30	(D) 20	P.S.I.		
Final Flow Period	Minutes 30	(E) 20	P.S.I. to (F)	20	P.S.I.
Final Closed In Period	Minutes 30	(G) 20	P.S.I.		
Final Hydrostatic Pressure		(H) 1225	P.S.I.	#5666	

FILED
AUG 6 1985

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 Lee M. Randle
Signature of Customer or his authorized representative

Western Representative Allen Edmonston

0525

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 8-3-85 Test Ticket No. 6182

Recorder No. 5666 Capacity 3950 Location Ft.

Clock No. Elevation Well Temperature 107 °F

Point	Pressure		Time Given	Time Computed
			1:00 P	3:00 P.
A Initial Hydrostatic Mud	1231	P.S.I.	Open Tool	M
B First Initial Flow Pressure	27	P.S.I.	First Flow Pressure 30 Mins.	30 Mins.
C First Final Flow Pressure	27	P.S.I.	Initial Closed-in Pressure 30 Mins.	30 Mins.
D Initial Closed-in Pressure	30	P.S.I.	Second Flow Pressure 30 Mins.	30 Mins.
E Second Initial Flow Pressure	30	P.S.I.	Final Closed-in Pressure 30 Mins.	30 Mins.
F Second Final Flow Pressure	30	P.S.I.		
G Final Closed-in Pressure	32	P.S.I.		
H Final Hydrostatic Mud	1225	P.S.I.		

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	27
P 2	5	
P 3	10	
P 4	15	27
P 5	20	
P 6	25	
P 7	30	27
P 8	~~35~~	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14	65	
P15	70	
P16	75	
P17	80	
P18	85	
P19	90	
P20	95	
	100	

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

Point Minutes	Press.
0	27
3	
6	
9	
12	
15	27
18	28
21	28
24	29
27	29
30	30
~~33~~	
36	
39	
42	
45	
48	
51	
54	
57	
60	

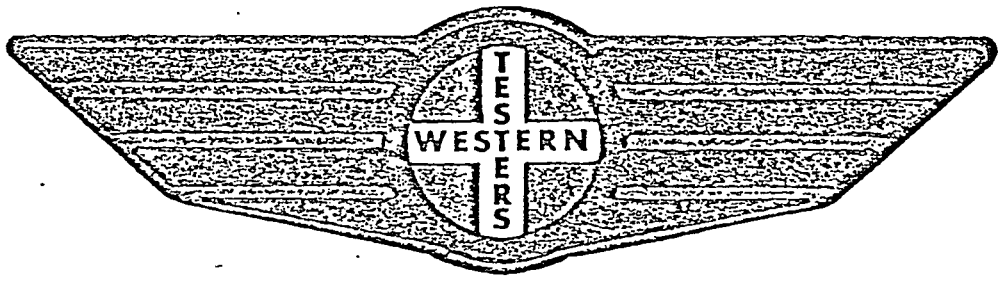
Second Flow Pressure
Breakdown: 7 Inc. of 5 mins. and a final inc. of 0 Min.

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

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

Point Minutes	Press.
0	30
3	
6	
9	
12	30
15	31
18	
21	
24	
27	31
30	32
33	32
~~36~~	
39	
42	
45	
48	
51	
54	
57	
60	

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone (316) 262-5861

Company RANGE OIL COMPANY, INC. Lease & Well No. #3 WEHRMAN Sec. 31 Twp. 29S Rge. 3E Test No. Date

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 8-3-85 TICKET #6182
CUSTOMER: RANGE OIL COMPANY INC. LEASE: WEHRMAN
WELL: 3 TEST: 1 GEOLOGIST: S.M. KREIDLER
ELEVATION (KB): 1509 FORMATION: PAWNEE
SECTION: 31 TOWNSHIP: 29S
RANGE: 8E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #5666 RANGE: 3950 CLOCK: 12

INTERVAL TEST FROM: 2448 FT TO: 2480 FT TOTAL DEPTH: 2480 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2443 FT SIZE: 6 3/4 IN PACKER DEPTH: 2448 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: 35
WEIGHT: 9.5 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 1000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2248 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 32 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: VERY WEAK BLOW FOR 10 MINUTES.

RECOVERED: 1 FT OF: DRILLING MUD WITH FEW OIL SPOTS.
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): 1:00 PM TIME STARTED OFF BOTTOM: 3:00 PM
WELL TEMPERATURE: 107 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1231 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 27 PSI TO (C) 27 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 30 PSI
FINAL FLOW PERIOD MIN: 30 (E) 30 PSI TO (F) 30 PSI
FINAL CLOSED IN PERIOD MIN: 33 (G) 32 PSI
FINAL HYDROSTATIC PRESSURE (H) 1225 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 8-3-85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 3
ELEVATION (KB): 1509
SECTION: 31
RANGE: 8E
GAUGE SN #5666

TEST: 1
COUNTY: BUTLER
RANGE: 3950

TICKET #6182
LEASE: WEHRMAN
GEOLOGIST: S.M. KREIDLER
FORMATION: PAWNEE
TOWNSHIP: 29S
STATE: KANSAS
CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1231	PSI
(B) FIRST INITIAL FLOW PRESSURE:	27	PSI
(C) FIRST FINAL FLOW PRESSURE:	27	PSI
(D) INITIAL CLOSED-IN PRESSURE:	30	PSI
(E) SECOND INITIAL FLOW PRESSURE:	30	PSI
(F) SECOND FINAL FLOW PRESSURE:	30	PSI
(G) FINAL CLOSED-IN PRESSURE:	32	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1225	PSI
WELL TEMPERATURE:	107	'F

OPEN TOOL: 1:00 PM

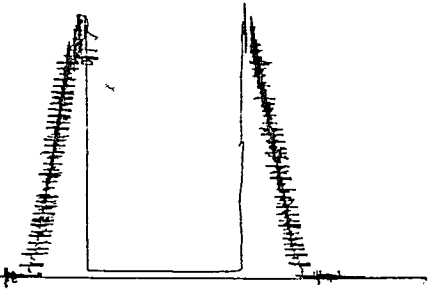
	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	30	MIN
SECOND FLOW PRESSURE:	30	MIN	30	MIN
FINAL CLOSED-IN PRESSURE:	30	MIN	33	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	27	0	27	0	30	0	30
2	5	27	3	27	5	30	3	30
3	10	27	6	27	10	30	6	30
4	15	27	9	27	15	30	9	30
5	20	27	12	27	20	30	12	30
6	25	27	15	27	25	30	15	31
7	30	27	18	28	30	30	18	31
8			21	28			21	31
9			24	29			24	31
10			27	29			27	31
11			30	30			30	32
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