WESTERN TESTING CO., INC.
FORMATION TESTING

Cancel

TICKET Nº 10903

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

Elevation 1113 KB Formation Pawnee, Fort Scott Eff. Pay Ft.

13

District Augusta Date 7-12-85 Customer Order No.

COMPANY NAME Range Oil Co Inc 240 Forge Court

ADDRESS 220 West Douglas Chautauqua

LEASE AND WELL NO. Malone #3 COUNTY CQ STATE Ks Sec. 17 Twp. 32 S Rge. 10 E

Mail Invoice To Same #3 "A" Malone No. Copies Requested 1
Co. Name Address

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 1 Interval Tested From 1742 ft. to 1800 ft. Total Depth 1800 ft.

Packer Depth 1742 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 1737 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 1750 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 1755 ft. Recorder Number 2608 Cap. 4175

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Rig #2

Mud Type Chemi Viscosity 43 Drill Collar Length 180 I. D. 2.25 in.

Weight 9.3 Water Loss N/A cc. Weight Pipe Length I. D. in.

Chlorides N/A P.P.M. Drill Pipe Length 1542 I. D. 3.8 in.

Jars: Make NO Serial Number Test Tool Length 20 ft. Tool Size 5 1/2 in.

Did Well Flow? Reversed Out Anchor Length 58 ft. Size 5 1/2 in.

Surface Choke Size 6/4 in. Bottom Choke Size 3/4 in.

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

Blow: fair blow throughout test

Recovered 820 ft. of gas in pipe

Recovered 40 ft. of mud gassy with Oil spot on top

Recovered 180 ft. of muddy gassy salt Water

Recovered ft. of

Recovered ft. of

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

RECEIVED
JUL 15 1985

Time On Location 2:45 A.M./P.M. Time Pick Up Tool 3:30 A.M./P.M. Time Off Location A.M./P.M.

Time Set Packer(s) 4:45 A.M./P.M. Time Started Off Bottom A.M./P.M. Maximum Temperature 89°

Initial Hydrostatic Pressure			(A)	808	P.S.I.	
Initial Flow Period	Minutes	30	(B)	73	P.S.I. to (C)	52 P.S.I.
Initial Closed In Period	Minutes	30	(D)	423	P.S.I.	
Final Flow Period	Minutes	60	(E)	95	P.S.I. to (F)	84 P.S.I.
Final Closed In Period	Minutes	60	(G)	466	P.S.I.	
Final Hydrostatic Pressure			(H)	808	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 H G McMahon III
Signature of Customer or his authorized representative

Western Representative Kenny Kendall

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	$

WESTERN TESTING CO., INC.
Pressure Data

Date 7-12-85 Test Ticket No. 10903

Recorder No. 2605 Capacity 4150 Location Ft.

Clock No. Elevation Well Temperature °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	819	P.S.I.		M
B First Initial Flow Pressure	46	P.S.I.	Open Tool	
C First Final Flow Pressure	46	P.S.I.	First Flow Pressure 30 Mins.	30 Mins.
D Initial Closed-in Pressure	422	P.S.I.	Initial Closed-in Pressure 30 Mins.	33 Mins.
E Second Initial Flow Pressure	88	P.S.I.	Second Flow Pressure 60 Mins.	65 Mins.
F Second Final Flow Pressure	88	P.S.I.	Final Closed-in Pressure 60 Mins.	66 Mins.
G Final Closed-in Pressure	476	P.S.I.		
H Final Hydrostatic Mud	808	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	46
P 2	5	46
P 3	10	46
P 4	15	46
P 5	20	
P 6	25	
P 7	30	46
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: 12 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	46
3	52
6	73
9	95
12	131
15	173
18	224
21	269
24	322
27	364
30	396
33	422
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 14 Inc. of 5 mins. and a final inc. of 0 Min.

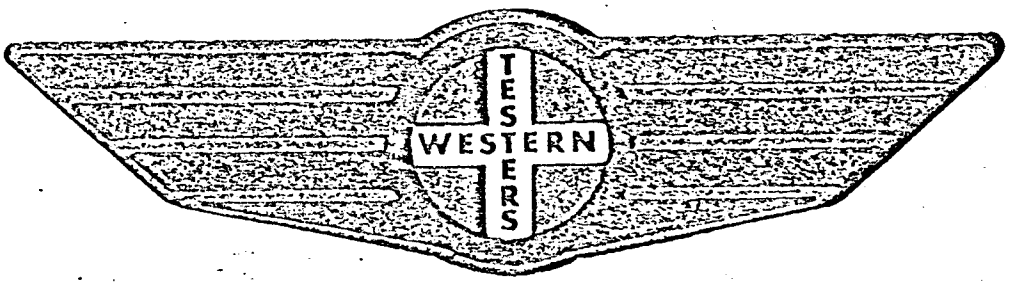
Point Minutes	Press.
0	88
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	
55	
60	
65	88
70	
75	
80	
85	
90	
95	
100	

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

Point Minutes	Press.
0	88
3	101
6	118
9	137
12	159
15	182
18	205
21	229
24	252
27	274
30	297
33	320
36	339
39	360
42	376
45	394
48	410
51	424
54	436
57	447
60	455
63	464
66	476

mpany RANGE OIL COMPANY, INC. Lease & Well No. #3 A [illegible] Sec. 17 Twp. 22S Rge. [illegible] Test No. [illegible]

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

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

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 7/12/85 TICKET #10903
CUSTOMER: RANGE OIL COMPANY INC. LEASE: "A" MALONE
WELL: 3 TEST: 1 GEOLOGIST: MCMAHON
ELEVATION (KB): 1113 FORMATION: PAWNEE-FORT SCOTT
SECTION: 17 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 1742 FT TO: 1800 FT TOTAL DEPTH: 1800 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 1742 FT SIZE: 6 3/4 IN PACKER DEPTH: 1737 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG
MUD TYPE: CHEMICAL VISCOSITY: 43
WEIGHT: 9.3 WATER LOSS (CC):
CHLORIDES (P.P.M.):
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?

DRILL COLLAR LENGTH:	180	FT	I.D.:	2.25	IN
WEIGHT PIPE LENGTH:		FT	I.D.:		IN
DRILL PIPE LENGTH:	1542	FT	I.D.:	3.8	IN
TEST TOOL LENGTH:	20	FT	TOOL SIZE:	5 1/2 OD	IN
ANCHOR LENGTH:	58	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: FAIR BLOW THROUGHOUT TEST.

RECOVERED:	820 FT	OF:	GAS ABOVE FLUID.
RECOVERED:	40 FT	OF:	MUDDY GAS WITH OIL SPOTS ON TOP.
RECOVERED:	180 FT	OF:	MUDDY GASSY SALT WATER.
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	

REMARKS:

TIME SET PACKER(S): 4:45 AM TIME STARTED OFF BOTTOM: 7:45 AM
WELL TEMPERATURE: 89 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 819	PSI		
INITIAL FLOW PERIOD	MIN: 30	(B) 46	PSI TO (C) 46		PSI
INITIAL CLOSED IN PERIOD	MIN: 33	(D) 422	PSI		
FINAL FLOW PERIOD	MIN: 65	(E) 88	PSI TO (F) 88		PSI
FINAL CLOSED IN PERIOD	MIN: 66	(G) 476	PSI		
FINAL HYDROSTATIC PRESSURE		(H) 808	PSI		

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 7/12/85 TICKET #10903
CUSTOMER: RANGE OIL COMPANY INC. LEASE: "A" MALONE
WELL: 3 TEST: 1 GEOLOGIST: MCMAHON
ELEVATION (KB): 1113 FORMATION: PAWNEE-FORT SCOTT
SECTION: 17 TOWNSHIP: 32S
RANGE: 10E COUNTY: CHAUTAUQUA STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	819	PSI
(B) FIRST INITIAL FLOW PRESSURE:	46	PSI
(C) FIRST FINAL FLOW PRESSURE:	46	PSI
(D) INITIAL CLOSED-IN PRESSURE:	422	PSI
(E) SECOND INITIAL FLOW PRESSURE:	88	PSI
(F) SECOND FINAL FLOW PRESSURE:	88	PSI
(G) FINAL CLOSED-IN PRESSURE:	476	PSI
(H) FINAL HYDROSTATIC PRESSURE:	808	PSI
WELL TEMPERATURE:	89	'F

OPEN TOOL: 4:45 AM

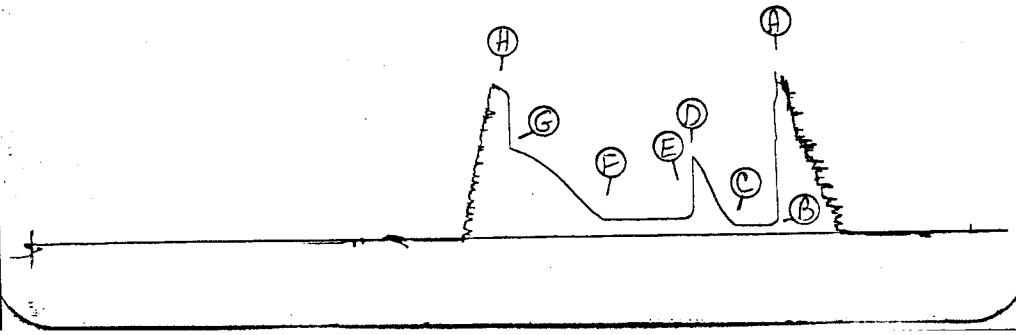
	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	33 MIN
SECOND FLOW PRESSURE:	60 MIN	65 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	66 MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	46	0	46	0	88	0	88
2	5	46	3	52	5	88	3	101
3	10	46	6	73	10	88	6	118
4	15	46	9	99	15	88	9	137
5	20	46	12	131	20	88	12	159
6	25	46	15	173	25	88	15	182
7	30	46	18	224	30	88	18	205
8			21	269	35	88	21	229
9			24	322	40	88	24	252
10			27	364	45	88	27	274
11			30	396	50	88	30	297
12			33	422	55	88	33	320
13					60	88	36	339
14					65	88	39	360
15							42	376
16							45	394
17							48	410
18							51	424
19							54	436
20							57	447
21							60	455
22							63	466
23							66	476
24								
25								
26								
27								
28								
29								
30								

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DST #1
2605

IKT #10903
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TKT #10903

2608