



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 20171

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

WICHITA, KANSAS 67201

Elevation ^{1125 GL} 1127 KB Formation 21155 Eff. Pay _____ Ft.

District Augusta Date 8-26-93 Customer Order No. _____

COMPANY NAME Range Oil Co.

ADDRESS 125 N. Market, Suite 1120 Wichita, KS. 67202

LEASE AND WELL NO. Inman #6 COUNTY _____ STATE KS Sec. 12 Twp. 32 Rge. 9E

Mail Invoice To _____ Co. Name #6 Inman Same Address _____ No. Copies Requested _____

Mail Charts To _____ Address _____ No. Copies Requested _____

Formation Test No. 1 Interval Tested From 2143 ft. to 2164 ft. Total Depth 2164 ft.

Packer Depth 2143 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 2138 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2146 ft. Recorder Number 13548 Cap. 4075

Bottom Recorder Depth (Outside) 2164 ft. Recorder Number 13521 Cap. 4375

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

Drilling Contractor GLAUCS #1 Drill Collar Length 337 I. D. 2 1/4 in.

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

Weight 9.9 Water Loss 12.2 cc. Drill Pipe Length 1726/1785 I. D. 3.8 in.

Chlorides 1200 P.P.M. Test Tool Length 31 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 21 ft. Size 5 1/2 in.

Did Well Flow? _____ Reversed Out _____ 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-FH

Blow: Weak increasing to 4". 2nd Flow - 3" Blow decreasing to surface blow

Recovered 30 ft. of slightly oil cut mud 8% oil 92% mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

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

Time On Location 11:00 A.M. Time Pick Up Tool 12:00 P.M. Time Off Location 5:30 P.M.

Time Set Packer(s) 1:05 P.M. Time Started Off Bottom 4:05 P.M. Maximum Temperature 93°

Initial Hydrostatic Pressure _____ (A) 1111 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 40 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 50 P.S.I.

Final Flow Period _____ Minutes 60 (E) 40 P.S.I. to (F) 40 P.S.I.

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

Final Hydrostatic Pressure _____ (H) 1071 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 of Customer or his authorized representative

Western Representative _____

FIELD INVOICE

Open Hole Test	\$
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 8-26-21 Test Ticket No. 20171
 Recorder No. 1548 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1158</u> P.S.I.	Open Tool	M	
B First Initial Flow Pressure	<u>82</u> P.S.I.	First Flow Pressure	Mins. <u>30</u>	Mins.
C First Final Flow Pressure	<u>56</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>10</u>	Mins.
D Initial Closed-in Pressure	<u>59</u> P.S.I.	Second Flow Pressure	Mins. <u>40</u>	Mins.
E Second Initial Flow Pressure	<u>51</u> P.S.I.	Final Closed-in Pressure	Mins. <u>57</u>	Mins.
F Second Final Flow Pressure	<u>51</u> P.S.I.			
G Final Closed-in Pressure	<u>59</u> P.S.I.			
H Final Hydrostatic Mud	<u>1071</u> P.S.I.			

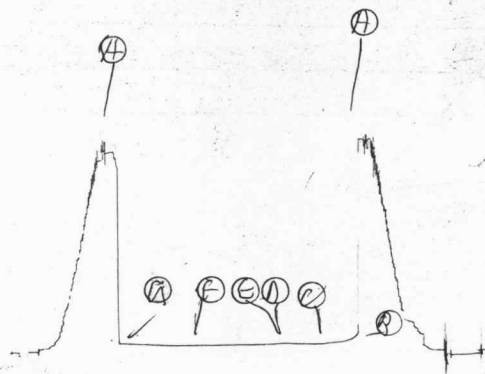
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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 0	<u>82</u>	0	<u>56</u>	0	<u>51</u>	0	<u>57</u>
P 2 5	<u>82</u>	3	<u>56</u>	5	<u>51</u>	3	<u>57</u>
P 3 10	<u>70</u>	6	<u>56</u>	10	<u>51</u>	6	<u>57</u>
P 4 15	<u>66</u>	9	<u>57</u>	15	<u>51</u>	9	<u>57</u>
P 5 20	<u>62</u>	12	<u>57</u>	20	<u>51</u>	12	<u>57</u>
P 6 25	<u>58</u>	15	<u>57</u>	25	<u>51</u>	15	<u>57</u>
P 7 30	<u>56</u>	18	<u>58</u>	30	<u>51</u>	18	<u>57</u>
P 8 35		21	<u>58</u>	35	<u>51</u>	21	<u>57</u>
P 9 40		24	<u>59</u>	40	<u>51</u>	24	<u>57</u>
P10 45		27	<u>59</u>	45	<u>51</u>	27	<u>57</u>
P11 50		30	<u>59</u>	50	<u>51</u>	30	<u>57</u>
P12 55		33		55	<u>51</u>	33	<u>57</u>
P13 60		36		60	<u>51</u>	36	<u>57</u>
P14 65		39		65		39	<u>57</u>
P15 70		42		70		42	<u>57</u>
P16 75		45		75		45	<u>57</u>
P17 80		48		80		48	<u>57</u>
P18 85		51		85		51	<u>57</u>
P19 90		54		90		54	<u>57</u>
P20 95		57		95		57	<u>57</u>
100		60		100		60	

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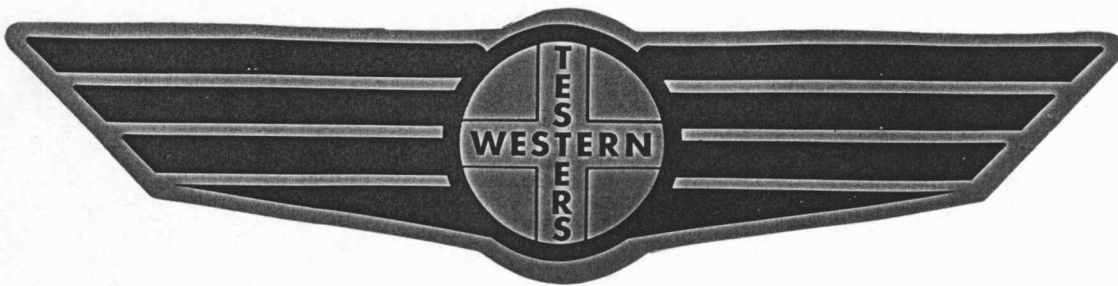
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE	: 8/26/93	TICKET	: 20171
CUSTOMER	: RANGE OIL COMPANY INC.	LEASE	: INMAN
WELL	: #6	GEOLOGIST	: CALLEWAERT
ELEVATION	: 1127 KB	FORMATION	: MISSISSIPPI
SECTION	: 12	TOWNSHIP	: 32S
RANGE	: 9E	STATE	: KS
GAUGE SN#	: 13548	CLOCK	: 12
	COUNTY: CHAUTAUQUA		
	RANGE : 4075		

WELL INFORMATION

PERFORATION INTERVAL FROM:	2143.00 ft	TO:	2164.00 ft	TVD:	2164.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	2146.0 ft		2164.0 ft		
TEMPERATURE:	93.0				
DRILL COLLAR LENGTH:	337.0 ft	I.D.:	2.250 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	1785.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	21.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	21.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH-FH		
PACKER DEPTH:	2143.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	2138.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	GLAVES RIG 1	VISCOSITY :	44.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	12.200 cc
WEIGHT :	9.900 ppq		
CHLORIDES :	1200 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW INCREASING TO 4
INCHES. FINAL FLOW PERIOD 3 INCH BLOW DECREASING
TO SURFACE BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	8.0	0.0	0.0	92.0	SLIGHTLY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0118	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	2.3604	STB/D
MUD VOLUME:	0.1357	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.1475	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1111.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	40.00	40.00
INITIAL SHUT-IN	30.00		50.00
FINAL FLOW	60.00	40.00	40.00
FINAL SHUT-IN	60.00		60.00

FINAL HYDROSTATIC PRESSURE: 1071.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1138.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	82.00	56.00
INITIAL SHUT-IN	30.00		59.00
FINAL FLOW	60.00	51.00	51.00
FINAL SHUT-IN	57.00		59.00

FINAL HYDROSTATIC PRESSURE: 1071.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8/26/93	TICKET : 20171
CUSTOMER : RANGE OIL COMPANY INC.	LEASE : INMAN
WELL : #6	GEOLOGIST: CALLEWAERT
ELEVATION: 1127 KB	FORMATION: MISSISSIPPI
SECTION : 12	TOWNSHIP : 32S
RANGE : 9E	STATE : KS
GAUGE SN#: 13548	CLOCK : 12
COUNTY: CHAUTAUQUA	
RANGE : 4075	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	82.00	82.00
5.00	82.00	0.00
10.00	70.00	-12.00
15.00	66.00	-4.00
20.00	62.00	-4.00
25.00	58.00	-4.00
30.00	56.00	-2.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	56.00	56.00	0.00
6.00	56.00	0.00	0.00
9.00	57.00	1.00	0.00
12.00	57.00	0.00	0.00
15.00	57.00	0.00	0.00
18.00	58.00	1.00	0.00
21.00	58.00	0.00	0.00
24.00	59.00	1.00	0.00
27.00	59.00	0.00	0.00
30.00	59.00	0.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	51.00	51.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
5.00	51.00	0.00
10.00	51.00	0.00
15.00	51.00	0.00
20.00	51.00	0.00
25.00	51.00	0.00
30.00	51.00	0.00
35.00	51.00	0.00
40.00	51.00	0.00
45.00	51.00	0.00
50.00	51.00	0.00
55.00	51.00	0.00
60.00	51.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	51.00	51.00	0.00
6.00	51.00	0.00	0.00
9.00	51.00	0.00	0.00
12.00	51.00	0.00	0.00
15.00	51.00	0.00	0.00
18.00	52.00	1.00	0.00
21.00	52.00	0.00	0.00
24.00	52.00	0.00	0.00
27.00	53.00	1.00	0.00
30.00	53.00	0.00	0.00
33.00	54.00	1.00	0.00
36.00	55.00	1.00	0.00
39.00	56.00	1.00	0.00
42.00	57.00	1.00	0.00
45.00	58.00	1.00	0.00
48.00	59.00	1.00	0.00
51.00	59.00	0.00	0.00
54.00	59.00	0.00	0.00
57.00	59.00	0.00	0.00



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 20172P. O. BOX 1599
WICHITA, KANSAS 67201

PHONE (316) 262-5861

Elevation 1125 GL Formation Arbuckle Eff. Pay _____ Ft.District Augusta Date 8-28-93 Customer Order No. _____COMPANY NAME Range Oil Co.ADDRESS 125 N. Market, Suite 1120 Wichita KS 67202LEASE AND WELL NO. Fuman #6 COUNTY Chautauqua STATE KS Sec. 12 Twp. 32 Rge. 9

Mail Invoice To _____ Co. Name _____ Address _____ No. Copies Requested _____

Mail Charts To _____ Address _____ No. Copies Requested _____

Formation Test No. 2 Interval Tested From 2450 ft. to 2475 ft. Total Depth 2475 ft.Packer Depth 2450 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.Packer Depth 2445 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2455 ft. Recorder Number 13548 Cap. 4025Bottom Recorder Depth (Outside) 2475 ft. Recorder Number 13521 Cap. 4325

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

Drilling Contractor GLAVES #1 Drill Collar Length 337 I. D. 2 1/4 in.Mud Type Chemical Viscosity 43 Weight Pipe Length _____ I. D. _____ in.Weight 9.5 Water Loss 12.0 cc. Drill Pipe Length 2102 I. D. 3.8 in.Chlorides 800 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.Jars: Make _____ Serial Number _____ Anchor Length 25 ft. Size 5 1/2 in.Did Well Flow? _____ Reversed Out _____ 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 - F&H in.Blow: Very Weak Died in 5 minutes Flushed tool on 2nd
Flow - No BlowRecovered 5 ft. of Only mud No shows

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

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

Time On Location 3:00 A.M. Time Pick Up Tool 3:15 P.M. Time Off Location 9:30 A.M.Time Set Packer(s) 4:50 A.M. Time Started Off Bottom 6:50 P.M. Maximum Temperature 91Initial Hydrostatic Pressure _____ (A) 1203 P.S.I.Initial Flow Period _____ Minutes 30 (B) 30 P.S.I. to (C) 30 P.S.I.Initial Closed In Period _____ Minutes 30 (D) 30 P.S.I.Final Flow Period _____ Minutes 30 (E) 30 P.S.I. to (F) 30 P.S.I.Final Closed In Period _____ Minutes 30 (G) 30 P.S.I.Final Hydrostatic Pressure _____ (H) 1162 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 representativeWestern Representative Stuart StoverThanks!

FIELD INVOICE

Open Hole Test	\$
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 8-28-93
Recorder No. 13548

Test Ticket No. 20172
Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1402</u> P.S.I.	Open Tool	M	
B First Initial Flow Pressure	<u>27</u> P.S.I.	First Flow Pressure	Mins. <u>30</u>	Mins.
C First Final Flow Pressure	<u>27</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>30</u>	Mins.
D Initial Closed-in Pressure	<u>27</u> P.S.I.	Second Flow Pressure	Mins. <u>30</u>	Mins.
E Second Initial Flow Pressure	<u>27</u> P.S.I.	Final Closed-in Pressure	Mins. <u>30</u>	Mins.
F Second Final Flow Pressure	<u>32</u> P.S.I.			
G Final Closed-in Pressure	<u>246</u> P.S.I.			
H Final Hydrostatic Mud	<u>1127</u> P.S.I.			

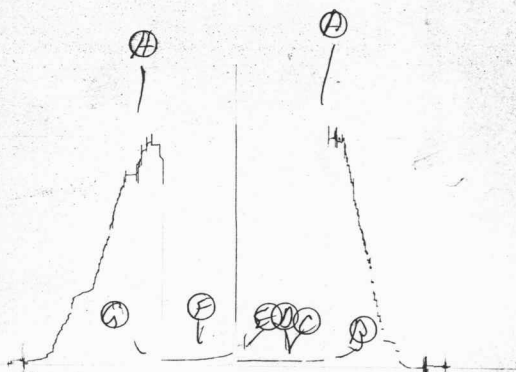
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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 0	<u>27</u>	0	<u>27</u>	0	<u>27</u>	0	<u>27</u>
P 2 5	<u>27</u>	3	<u>27</u>	5	<u>27</u>	3	<u>29</u>
P 3 10	<u>27</u>	6	<u>27</u>	10	<u>26.5</u>	6	<u>28</u>
P 4 15	<u>27</u>	9	<u>27</u>	15	<u>29</u>	9	<u>27</u>
P 5 20	<u>27</u>	12	<u>27</u>	20	<u>24</u>	12	<u>24</u>
P 6 25	<u>27</u>	15	<u>27</u>	25	<u>24</u>	15	<u>24</u>
P 7 30	<u>27</u>	18	<u>27</u>	30	<u>32</u>	18	<u>27</u>
P 8 35		21	<u>27</u>	35		21	<u>27</u>
P 9 40		24	<u>27</u>	40		24	<u>27</u>
P10 45		27	<u>27</u>	45		27	<u>27</u>
P11 50		30	<u>27</u>	50		30	<u>26</u>
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

KT 20172

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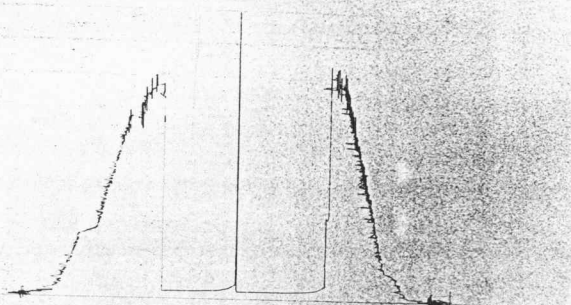
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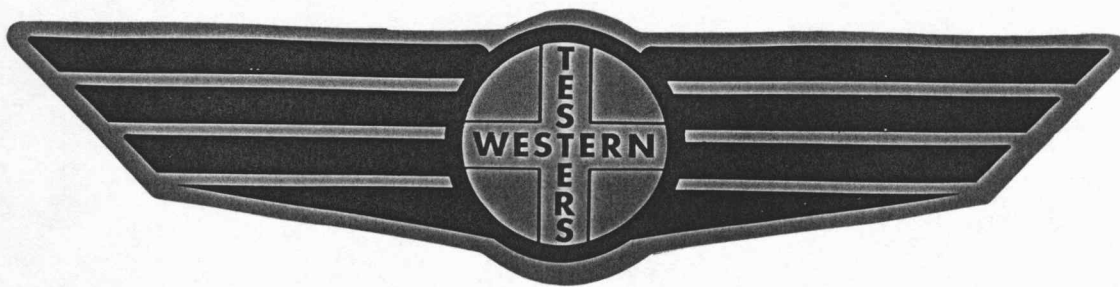
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

COMPANY RANGE OIL COMPANY, INC. LEASE & WELL NO. #6 INMAN SEC. 12 TWP. 32S RGE. 9E TEST NO. 2 DATE 8/28/93

DST REPORT

GENERAL INFORMATION

DATE	: 8/28/93	TICKET	: 20172
CUSTOMER	: RANGE OIL COMPANY INC.	LEASE	: INMAN
WELL	: #6	TEST: 2	GEOLOGIST: CALLEWAERT
ELEVATION	: 1127 KB	FORMATION	: ARBUCKLE
SECTION	: 12	TOWNSHIP	: 32S
RANGE	: 9E	STATE	: KS
GAUGE SN#	: 13548	RANGE	: 4075
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	2450.00 ft	TO:	2475.00 ft	TVD:	2475.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	2455.0 ft		2475.0 ft		
TEMPERATURE:	91.0				
DRILL COLLAR LENGTH:	337.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	2092.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	21.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	25.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :		4.5XH-FH	
PACKER DEPTH:	2450.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	2445.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	GLAVES RIG 1	VISCOSITY :	43.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	12.000 cc
WEIGHT :	9.500 ppg		
CHLORIDES :	800 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW - DIED IN 5
MINUTES. FINAL FLOW PERIOD FLUSHED TOOL - NO BLOW

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	0.0	0.0	0.0	100.0	DRILLING MUD - NO SHOW

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0246	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0246	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1203.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	30.00	30.00
INITIAL SHUT-IN	30.00		30.00
FINAL FLOW	30.00	30.00	30.00
FINAL SHUT-IN	30.00		30.00

FINAL HYDROSTATIC PRESSURE: 1162.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1203.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	27.00	27.00
INITIAL SHUT-IN	30.00		27.00
FINAL FLOW	30.00	27.00	32.00
FINAL SHUT-IN	30.00		26.00

FINAL HYDROSTATIC PRESSURE: 1177.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8/28/93	TICKET : 20172
CUSTOMER : RANGE OIL COMPANY INC.	LEASE : INMAN
WELL : #6	GEOLOGIST: CALLEWAERT
ELEVATION: 1127 KB	FORMATION: ARBUCKLE
SECTION : 12	TOWNSHIP : 32S
RANGE : 9E	STATE : KS
Gauge SN#: 13548	CLOCK : 12
COUNTY: CHAUTAUQUA	
RANGE : 4075	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	27.00	27.00
5.00	27.00	0.00
10.00	27.00	0.00
15.00	27.00	0.00
20.00	27.00	0.00
25.00	27.00	0.00
30.00	27.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	27.00	27.00	0.00
6.00	27.00	0.00	0.00
9.00	27.00	0.00	0.00
12.00	27.00	0.00	0.00
15.00	27.00	0.00	0.00
18.00	27.00	0.00	0.00
21.00	27.00	0.00	0.00
24.00	27.00	0.00	0.00
27.00	27.00	0.00	0.00
30.00	27.00	0.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	27.00	27.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
5.00	27.00	0.00
10.00	60.00	33.00
15.00	49.00	-11.00
20.00	42.00	-7.00
25.00	36.00	-6.00
30.00	32.00	-4.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	29.00	29.00	0.00
6.00	28.00	-1.00	0.00
9.00	27.00	-1.00	0.00
12.00	26.00	-1.00	0.00
15.00	26.00	0.00	0.00
18.00	26.00	0.00	0.00
21.00	26.00	0.00	0.00
24.00	26.00	0.00	0.00
27.00	26.00	0.00	0.00
30.00	26.00	0.00	0.00