



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 7548

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

Elevation 1698KB Formation Conglomerate Eff. Pay Ft.

District Great Bend KS Date 2/6/85 Customer Order No.

COMPANY NAME RANGE OIL Company Inc.

ADDRESS 240 Page Court 220 West Douglas Wichita Kansas 67202

LEASE AND WELL NO. Williams C#1 COUNTY Rice STATE KANSAS Sec. 7 Twp. 18 Rge. 6W

Mail Invoice To Same as above No. Copies Requested 5

Mail Charts To Same as above Address #1 'C' WILLIAMS No. Copies Requested 5

Formation Test No. #1 Interval Tested From 3222 ft. to 3260 ft. Total Depth 3260 ft.

Packer Depth 3217 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.
Packer Depth 3222 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3226 ft. Recorder Number 13553 Cap. 4025

Bottom Recorder Depth (Outside) 3230 ft. Recorder Number 13520 Cap. 4175

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor RANGE DRILL Rig #1 Drill Collar Length 117 I. D. 2.25 in.

Mud Type STARCH Viscosity 48 Weight Pipe Length 30943084 I. D. 3.8 in.

Weight 9.8 Water Loss 14.0 cc. Drill Pipe Length 38 ft. Tool Size 5 1/2 OD in.

Chlorides 80,000 P.P.M. Test Tool Length 38 ft. Tool Size 5 1/2 OD in.

Jars: Make Serial Number Anchor Length 3/4 ft. Size 5 1/2 OD in.

Did Well Flow? NO Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 4 1/2 XH in.

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

Blow: 1st opening fair blow building to a strong blow off bottom of bucket 10min Remain thru out

2nd opening fair Blow building to a strong blow off bottom of bucket in 10min Remain thru out

Recovered 744 ft. of GAS IN Pipe

Recovered 110 ft. of HEAVY OIL & GAS Cut Mud 20% GAS 25% OIL 55% MUD

Recovered 186 ft. of Heavy GAS Mud Cut Oil 5% GAS 70% OIL 10% MUD 15% WATER

Recovered 310 ft. of GAS Cut Oil 2% MUD 2% WATER

Recovered 606 ft. of TOTAL RECOVERY

Chlorides P.P.M. Sample Jars used 7 Remarks: 28 GRAVITY @ 56 CORRECTED @ 28.3

Time On Location 7:40 A.M. P.M. Time Pick Up Tool 9:30 A.M. P.M. Time Off Location 7:30 A.M. P.M.

Time Set Packer(s) 12:20 A.M. P.M. Time Started Off Bottom 3:20 A.M. P.M. Maximum Temperature 106°

Initial Hydrostatic Pressure (A) 1660 P.S.I.

Initial Flow Period Minutes 30 (B) 68 P.S.I. to (C) 107 P.S.I.

Initial Closed In Period Minutes 30 (D) 737 P.S.I.

Final Flow Period FEB. 13. 1985 Minutes 60 (E) 137 P.S.I. to (F) 196 P.S.I.

Final Closed In Period Minutes 60 (G) 756 P.S.I.

Final Hydrostatic Pressure (H) 1650 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 Robert Oken Signature of Customer or his authorized representative

Western Representative Ronnie Mitchell 2/6/85 1325

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes 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 216185 Test Ticket No. 7548
 Recorder No. 13553 Capacity _____ Location _____ P
 Clock No. _____ Elevation _____ Well Temperature _____ °

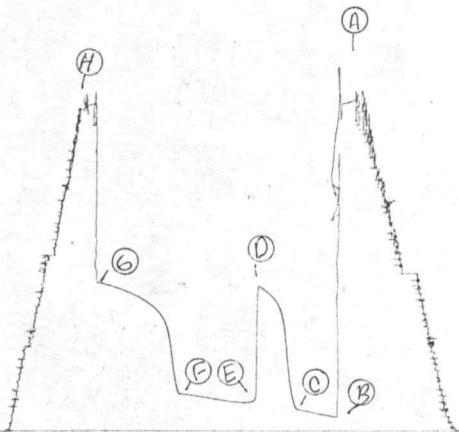
Point	Pressure	P.S.I.	Open Tool	M	Time Given	Time Computed
A Initial Hydrostatic Mud	1676	P.S.I.				
B First Initial Flow Pressure	72	P.S.I.	First Flow Pressure		30	Mins. _____ Min
C First Final Flow Pressure	110	P.S.I.	Initial Closed-in Pressure		30	Mins. _____ Min
D Initial Closed-in Pressure	740	P.S.I.	Second Flow Pressure		60	Mins. _____ Min
E Second Initial Flow Pressure	142	P.S.I.	Final Closed-in Pressure		60	Mins. _____ Min
F Second Final Flow Pressure	188	P.S.I.				
G Final Closed-in Pressure	757	P.S.I.				
H Final Hydrostatic Mud	1655	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>13</u> Inc.		Breakdown: <u>21</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 0	72	0	110	0	142	0	188
P 2 5	75	3	165	5	145	3	271
P 3 10	80	6	289	10	142	6	426
P 4 15	88	9	511	15	145	9	533
P 5 20	95	12	60	20	149	12	581
P 6 25	103	15	658	25	154	15	607
P 7 30	110	18	682	30	161	18	627
P 8 35		21	704	35	167	21	644
P 9 40		24	719	40	173	24	659
P10 45		27	732	45	178	27	673
P11 50		30	740	50	183	30	684
P12 55		33		55	186	33	695
P13 60		36		60	188	36	704
P14 65		39		65		39	712
P15 70		42		70		42	721
P16 75		45		75		45	728
P17 80		48		80		48	734
P18 85		51		85		51	740
P19 90		54		90		54	746
P20 95		57		95		57	752
100		60		100		60	757

TKT # 7548

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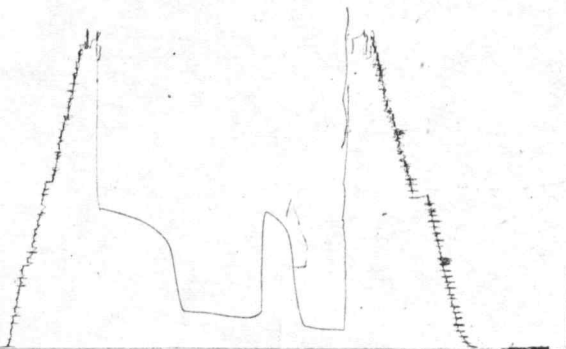


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TKT # 7548

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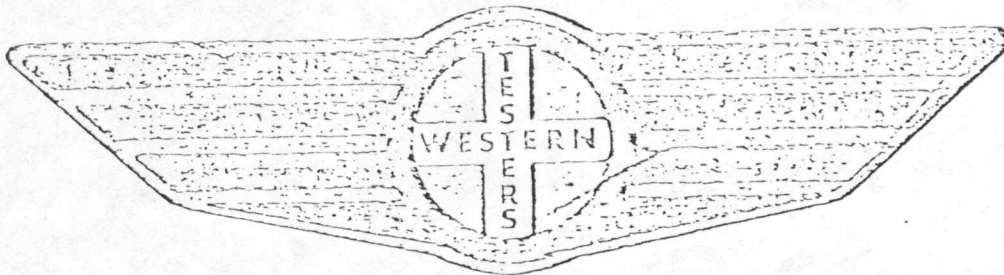
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FORMATION

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 "C" WILLIAMS Sec. 7 Twp. 18S Rge. 6W Test No. 1 Date 2/6/85

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/6/85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 1
ELEVATION (KB): 1698 FORMATION: CONGLOMERATE
SECTION: 7 TOWNSHIP: 18S
RANGE: 6W COUNTY: RICE STATE: KANAS
GAUGE SN #13553 RANGE: 4025 CLOCK: 12

TICKET #7548
LEASE: WILLIAMS 'C'
GEOLOGIST: OLSEN

INTERVAL TEST FROM: 3222 FT TO: 3260 FT TOTAL DEPTH: 3260 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3217 FT SIZE: 6 5/8 IN PACKER DEPTH: 3222 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: STARCH VISCOSITY: 48
WEIGHT: 9.8 WATER LOSS (CC): 14.0
CHLORIDES (P.P.M.): 80000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?

DRILL COLLAR LENGTH: 117 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3084 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 38 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: BOTH INITIAL & FINAL FLOW PERIODS HAD FAIR
BLOWS BUILDING TO STRONG OFF BOTTOM
F BUCKET BLOWS IN 10 MINUTES AND
REMAINING THROUGHOUT.

RECOVERED: 744 FT OF: GAS ABOVE FLUID.
RECOVERED: 110 FT OF: HEAVY OIL & GAS CUT MUD.
RECOVERED: FT OF: 20% GAS; 25% OIL; 55% MUD.
RECOVERED: 186 FT OF: HEAVY GAS & MUD CUT OIL;
RECOVERED: FT OF: 5% GAS; 70% OIL; 10% MUD; 15% WTR.
RECOVERED: 310 FT OF: GAS CUT OIL.
RECOVERED: FT OF: 96% OIL; 2% MUD; 2% WATER.
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: 28 GRAVITY @ 56 DEGREES CORRECTED @ 28.3.

TIME SET PACKER(S): 12:20 A.M. TIME STARTED OFF BOTTOM: 3:20 A.M.
WELL TEMPERATURE: 106 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1676 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 72 PSI TO (C) 110 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 740 PSI
FINAL FLOW PERIOD MIN: 60 (E) 142 PSI TO (F) 188 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 757 PSI
FINAL HYDROSTATIC PRESSURE (H) 1655 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 7549

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

Elevation 1698 KB Formation Conglomerate Eff. Pay - Ft.

District Great Bend Ks Date 2/6/85 Customer Order No. -

COMPANY NAME Range Oil Company Inc.

ADDRESS 240 Page Court 220 West Douglas Wichita Kansas 67202

LEASE AND WELL NO. Williams C#1 COUNTY Rice STATE Ks Sec. 7 Twp. 18 Rge. 6W

Mail Invoice To Same as above No. Copies Requested 5

Co. Name Address #1 C' WILLIAMS No. Copies Requested 5

Mail Charts To Same as above Address

Formation Test No. #2 Interval Tested From 3264 ft. to 3269 ft. Total Depth 3269 ft.

Packer Depth 3259 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3264 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3254 ft. Recorder Number 13553 Cap. 4625

Bottom Recorder Depth (Outside) 3265 ft. Recorder Number 13520 Cap. 4175

Below Saddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range DRIG Rig #1 Drill Collar Length 117 I. D. 2.9 in.

Mud Type Starch Viscosity 37 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 10.4 cc. Drill Pipe Length 3121 I. D. 3.8 in.

Chlorides 76,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 5 ft. Size 5 1/2 OD 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 H in.

Blow: 1st opening fair blow building to a strong blow hose 10" into bucket, blow remain thru

2nd opening fair blow building to a strong blow off bottom of bucket in 20 min, remain thru

Recovered 744' ft. of GAS IN Pipe

Recovered 310 ft. of Heavy Thick Froggy oil 10% GAS 72% Froggy Oil 15% MWD 3% WATER

Recovered 310 ft. of TOTAL FLUID RECOVERY

Chlorides P.P.M. Sample Jars used 5 Remarks: CHARTS SHOW PLUGGING ACTION THRUOUT

Show of FREE oil GRAVITY WAS 35 @ 50° CORRECTED @ 25.7 Test

Anchor WAS Clean

Time On Location 12:35 A.M. Time Pick Up Tool 1:00 A.M. Time Off Location A.M.

Time Set Packer(s) 3:15 P.M. Time Started Off Bottom 6:15 P.M. Maximum Temperature NOT AVAILABLE

Initial Hydrostatic Pressure 1630 P.S.I.

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

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

Final Flow Period 60 (E) 137 ? P.S.I. to (F) 117 ? P.S.I.

Final Closed In Period 60 (G) 835 ? P.S.I.

Final Hydrostatic Pressure 1620 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 Ronnie Mitchell 1325

FIELD INVOICE

Table with 2 columns: Item and Price. Items include 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, and TOTAL (\$550).

WESTERN TESTING CO., INC.

Pressure Data

Date: 2/16/85 Test Ticket No. 7549
 Recorder No. 13553 Capacity _____ Location _____
 Clock No. _____ Elevation _____ Well Temperature _____

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>11030</u> P.S.I.			
B First Initial Flow Pressure	<u>73</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	
C First Final Flow Pressure	<u>133</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	
D Initial Closed-in Pressure	<u>853</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	
E Second Initial Flow Pressure	<u>181</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	
F Second Final Flow Pressure	<u>126</u> P.S.I.			
G Final Closed-in Pressure	<u>829</u> P.S.I.			
H Final Hydrostatic Mud	<u>1585</u> P.S.I.			

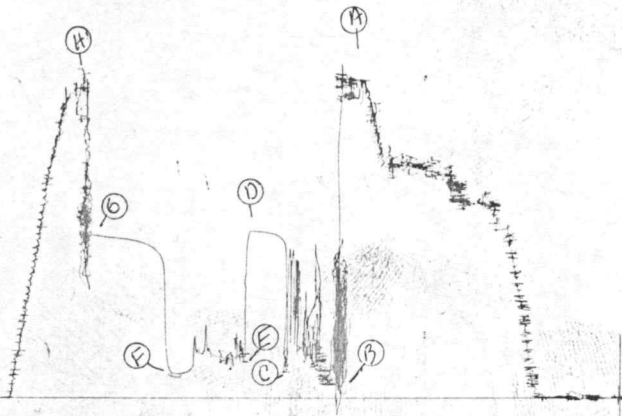
PRESSURE BREAKDOWN

First Flow Pressure Breakdown:		Initial Shut-In Breakdown:		Second Flow Pressure Breakdown:		Final Shut-In Breakdown:	
7 Inc. of 5 mins. and a final inc. of 0 Min.		11 Inc. of 3 mins. and a final inc. of 0 Min.		14 Inc. of 5 mins. and a final inc. of 0 Min.		3 mins. and a final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	73	0	133	0	181	0	126
P 2 5	109	3	817	5	181	3	204
P 3 10	217	6	834	10	144	6	658
P 4 15	251	9	840	15	175	9	729
P 5 20	273	12	844	20	211	12	751
P 6 25	281	15	848	25	222	15	768
P 7 30	133	18	848	30	222	18	780
P 8 35		21	850	35	232	21	790
P 9 40		24	851	40	141	24	795
P10 45		27	852	45	124	27	800
P11 50		30	853	50	119	30	805
P12 55		33		55	118	33	808
P13 60		36		60	121	36	811
P14 65		39		65	126	39	813
P15 70		42		70		42	815
P16 75		45		75		45	817
P17 80		48		80		48	818
P18 85		51		85		51	821
P19 90		54		90		54	823
P20 95		57		95		57	826
100		60		100		60	829

TRT # 7549

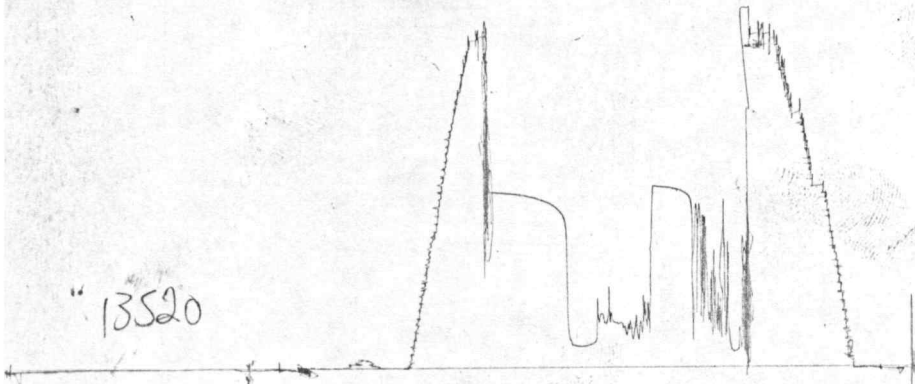
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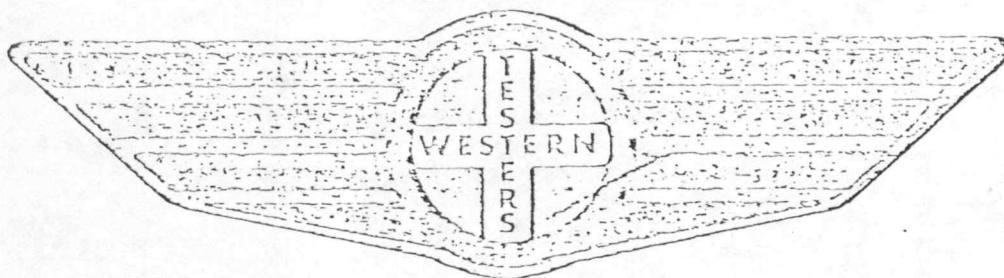
" 13520



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/6/85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 2
ELEVATION (KB): 1698 FORMATION: CONGLOMERATE
SECTION: 7 TOWNSHIP: 18S
RANGE: 6W COUNTY: RICE STATE: KANSAS
GAUGE SN #13553 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3264 FT TO: 3269 FT TOTAL DEPTH: 3269 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3259 FT SIZE: 6 5/8 IN PACKER DEPTH: 3264 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: STARCH VISCOSITY: 37
WEIGHT: 9.7 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 76000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 117 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3121 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 26 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 5 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: INITIAL FLOW PERIOD FAIR BLOW BUILDING TO STRONG
10" BLOW IN BUCKET REMAINING THROUGHOUT.
FINAL FLOW PERIOD FAIR BLOW BUILDING TO STRONG
OFF BOTTOM OF BUCKET IN 20 MINUTES REMAINING

RECOVERED: 744 FT OF: GAS ABOVE FLUID.
RECOVERED: 310 FT OF: HEAVY THICK FROGGY OIL.
RECOVERED: FT OF: 10% GAS; 72% FR. OIL; 15% MUD; 3% WTR.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: CHARTS SHOW PLUGGING ACTION THROUGHOUT
TEST. GRAVITY 35 @ 50 DEGREES CORRECTED
@ 35.7 . ANCHOR WAS CLEAN.

TIME SET PACKER(S): 3:15 P.M. TIME STARTED OFF BOTTOM: 6:15 P.M.
WELL TEMPERATURE: 0 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1630 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 73 PSI TO (C) 133 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 853 PSI
FINAL FLOW PERIOD MIN: 65 (E) 181 PSI TO (F) 126 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 829 PSI
FINAL HYDROSTATIC PRESSURE (H) 1585 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

NO. 7550

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

Elevation 1698 KB Formation Conglomerate Eff. Pay Ft.

District 11 Great Bend Ks Date 2/7/85 Customer Order No.

COMPANY NAME RANGE OIL COMPANY INC ADDRESS 240 PAGE COURT 220 WEST DOUGLAS WICHITA KANS 67202 18

LEASE AND WELL NO. Williams C#1 COUNTY Rice STATE KS Sec. 7 Twp. 18 Rge. 6W

Mail Invoice To Same as above Co. Name Address #1C WILLIAMS No. Copies Requested 5

Mail Charts To Same as above Address No. Copies Requested 5

Formation Test No. #3 Interval Tested From 3272 ft. to 3280 ft. Total Depth 3280 ft.
Packer Depth 3268 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3272 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 3262 ft. Recorder Number 13553 Cap. 4025
Bottom Recorder Depth (Outside) 3276 ft. Recorder Number 13520 Cap. 4125
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor RANGE OIL Rig #1 Drill Collar Length 117 I. D. 2.9 in.
Mud Type Viscosity 37 Weight Pipe Length - I. D. - in.
Weight 9.7 Water Loss 10.4 cc. Drill Pipe Length 3129 I. D. 3.8 in.
Chlorides 76,000 P.P.M. Test Tool Length 26 ft. Tool Size 5 3/4 in.
Jars: Make - Serial Number - Anchor Length 8 ft. Size 5 3/4 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 in.

Blow: 1st opening, wear Blow Hose 2" INTO Bucket Blow REMAIN THRU-OUT
2nd opening, wear Blow Hose 2" INTO Bucket Blow REMAIN THRU-OUT

Recovered ft. of
Recovered 75 ft. of MUD
Recovered ft. of
Recovered ft. of
Recovered ft. of

Chlorides P.P.M. Sample Jars used 2 Remarks: Tool slid 2' CHARTS INDICATES PLUGGING
ACTION ALL WAY THRU - THE TEST.

Time On Location 1:45 A.M. Time Pick Up Tool 2:30 P.M. Time Off Location 10:15 A.M.
Time Set Packer(s) 4:30 A.M. Time Started Off Bottom 7:30 P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) - P.S.I.
Initial Flow Period Minutes 30 (B) - P.S.I. to (C) - P.S.I.
Initial Closed In Period Minutes 30 (D) - P.S.I.
Final Flow Period Minutes 60 (E) - P.S.I. to (F) - P.S.I.
Final Closed In Period Minutes 60 (G) - P.S.I.
Final Hydrostatic Pressure (H) - 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.

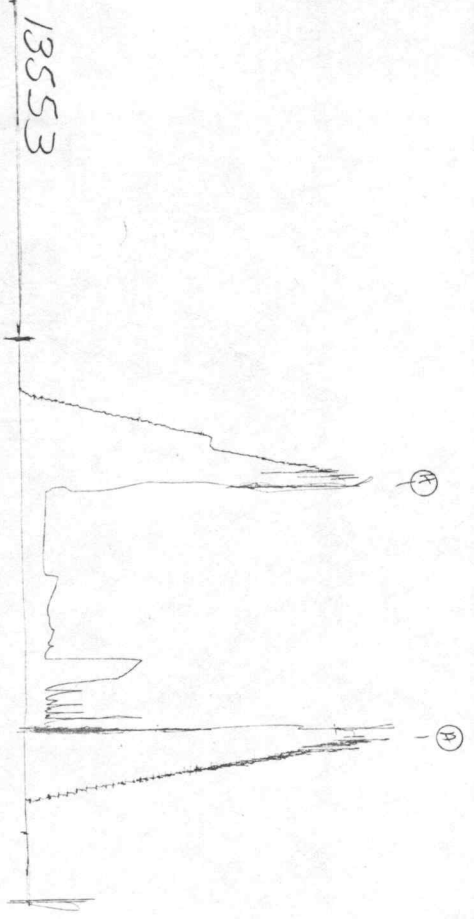
Test Approved By Robert Shroy Signature of Customer or his authorized representative

Western Representative Ronnie Mitchell 1325

FIELD INVOICE

Table with 2 columns: Item, Amount. Items include 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.

TKI # 7550
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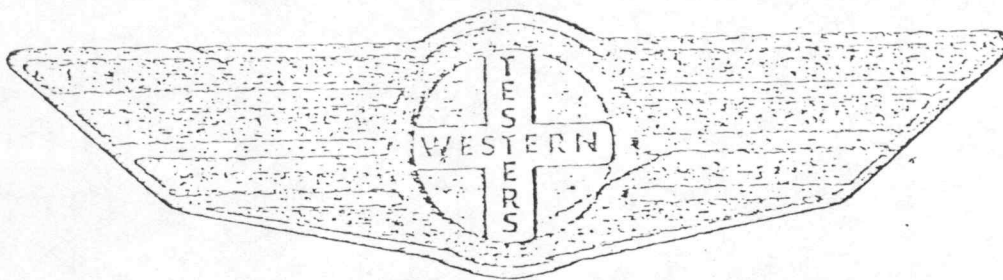


TKI # 7550
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

EPANY RANGE OIL COMPANY INC. Lease and Well No. #1 "C" WILLIAMS Sec. 7 WP. 188

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/7/85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 1 TEST: 3
ELEVATION (KB): 1698
SECTION: 7
RANGE: 6W COUNTY: RICE
GAUGE SN #13553 RANGE: 4052

TICKET #7550
LEASE: WILLIAMS 'C'
GEOLOGIST: OLSEN
FORMATION: CONGLOMERATE
TOWNSHIP: 18S
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 3272 FT TO: 3280 FT TOTAL DEPTH: 3280 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3267 FT SIZE: 6 5/8 IN PACKER DEPTH: 3272 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: STARCH VISCOSITY: 37
WEIGHT: 9.7 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 76000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 117 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3129 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 26 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 8 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: INITIAL FLOW PERIOD WEAK 2" BLOW THROUGHOUT.
FINAL FLOW PERIOD WEAK 2" BLOW THROUGHOUT.

RECOVERED: 75 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: TOOL SLID 2' TO BOTTOM. MISRUN.

TIME SET PACKER(S): 4:30 A.M.

TIME STARTED OFF BOTTOM: 7:30 A.M.

WELL TEMPERATURE: 0 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1681 PSI
INITIAL FLOW PERIOD MIN: 0 (B) 0 PSI TO (C) 0 PSI
INITIAL CLOSED IN PERIOD MIN: 0 (D) 0 PSI
FINAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
FINAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
FINAL HYDROSTATIC PRESSURE (H) 1645 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO: 10401

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

Elevation 1698 KB Formation Conglomerate Eff. Pay Ft.

District 11 Great Bend KS Date 2/7/85 Customer Order No.

COMPANY NAME Range Oil Company Inc.

ADDRESS 240 Page Court 220 West Douglas Wichita Kansas 67202

LEASE AND WELL NO. Williams C#1 COUNTY Rice STATE KS Sec. 7 Twp. 18 Rge. 6

Mail Invoice To Same as above No. Copies Requested 5

Co. Name Same as above Address #1 'C' WILLIAMS No. Copies Requested 5

Mail Charts To Same as above Address

Formation Test No. #4 Interval Tested From 3272 ft. to 3285 ft. Total Depth 3285 ft.

Packer Depth 3267 ft. Size 6 1/8 in. Packer Depth - ft. Size - in.

Packer Depth 3272 ft. Size 6 1/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3276 ft. Recorder Number 13553 Cap. 4025

Bottom Recorder Depth (Outside) 3280 ft. Recorder Number 10979 Cap. 4100

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

Drilling Contractor RANGE DRIG Rig #1 Drill Collar Length 117 I. D. 2.25 in.

Mud Type STARCH Viscosity 37 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 12.0 cc. Drill Pipe Length 3134 I. D. 3.8 in.

Chlorides 74,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 13 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 1/8 in. Tool Joint Size 4 1/2 XH in.

Blow: 1st opening, Weak Blow Hose 1" into Bucket Flushed Tool in 10 min got STRONG SURGE, Blow Remain TRV -

2nd opening, Weak Blow Hose 2" into Bucket Blow Remain TRV - out

Recovered 70 ft. of Slightly Gas and Oil Cut Mud 25% oil 65 mud 10% WTR

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: Heavily oil Cut Mud in via

TOOL

Time On Location 2:00 P.M. Time Pick Up Tool 7:45 P.M. Time Off Location 3:00 P.M.

Time Set Packer(s) 9:45 P.M. Time Started Off Bottom 12:45 P.M. Maximum Temperature 106'

Initial Hydrostatic Pressure (A) 1680 P.S.I.

Initial Flow Period Minutes 30 (B) 29 P.S.I. to (C) 39 P.S.I.

Initial Closed In Period Minutes 30 (D) 835 P.S.I.

Final Flow Period Minutes 60 (E) 49 P.S.I. to (F) 49 P.S.I.

Final Closed In Period Minutes 60 (G) 826 P.S.I.

Final Hydrostatic Pressure (H) 1650 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: Ronnie Mitchell 2/8/85

FIELD INVOICE

Table with 2 columns: Item, Price. Includes 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 17 185 Test Ticket No. 10401
 Recorder No. 13553 Capacity _____ Location _____ Ft _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F _____

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1690</u> P.S.I.	_____	_____	_____
B First Initial Flow Pressure	<u>33</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	_____ Min.
C First Final Flow Pressure	<u>36</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	_____ Min.
D Initial Closed-in Pressure	<u>830</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	_____ Min.
E Second Initial Flow Pressure	<u>46</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	_____ Min.
F Second Final Flow Pressure	<u>440</u> P.S.I.			
G Final Closed-in Pressure	<u>821</u> P.S.I.			
H Final Hydrostatic Mud	<u>1661</u> P.S.I.			

** Fresh test*

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 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.

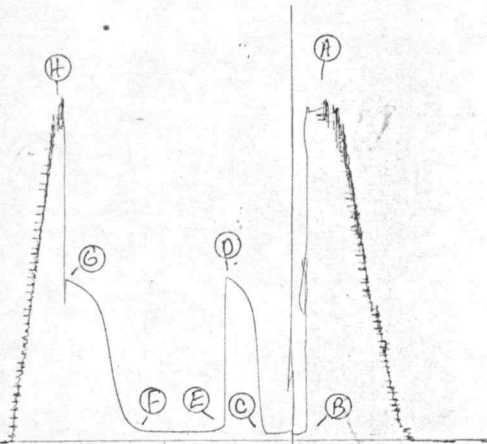
Final Shut-In
 Breakdown: 20 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>33</u>	0	<u>36</u>	0	<u>46</u>	0	<u>46</u>
P 2 5	<u>33</u>	3	<u>100</u>	5		3	<u>51</u>
P 3 10	<u>33</u>	6	<u>361</u>	10		6	<u>60</u>
P 4 15	<u>42</u>	9	<u>639</u>	15		9	<u>73</u>
P 5 20	<u>38</u>	12	<u>712</u>	20		12	<u>91</u>
P 6 25	<u>36</u>	15	<u>752</u>	25		15	<u>122</u>
P 7 30	<u>36</u>	18	<u>779</u>	30		18	<u>172</u>
P 8 35		21	<u>799</u>	35		21	<u>240</u>
P 9 40		24	<u>817</u>	40		24	<u>339</u>
P10 45		27	<u>828</u>	45		27	<u>483</u>
P11 50		30	<u>836</u>	50		30	<u>601</u>
P12 55		33		55		33	<u>669</u>
P13 60		36		60	<u>46</u>	36	<u>709</u>
P14 65		39		65		39	<u>739</u>
P15 70		42		70		42	<u>762</u>
P16 75		45		75		45	<u>778</u>
P17 80		48		80		48	<u>792</u>
P18 85		51		85		51	<u>801</u>
P19 90		54		90		54	<u>811</u>
P20 95		57		95		57	<u>821</u>
100		60		100		60	<u>80</u>

TKT # 10401

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1355B

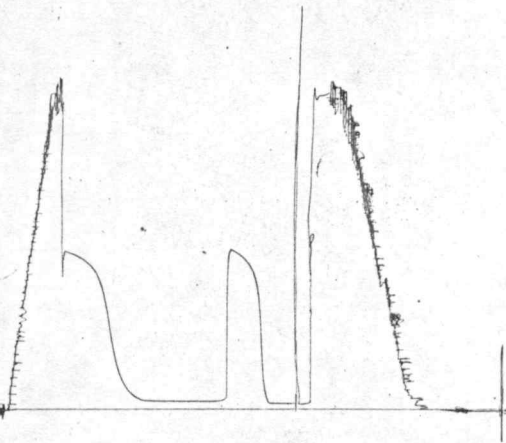


TKT # 10401

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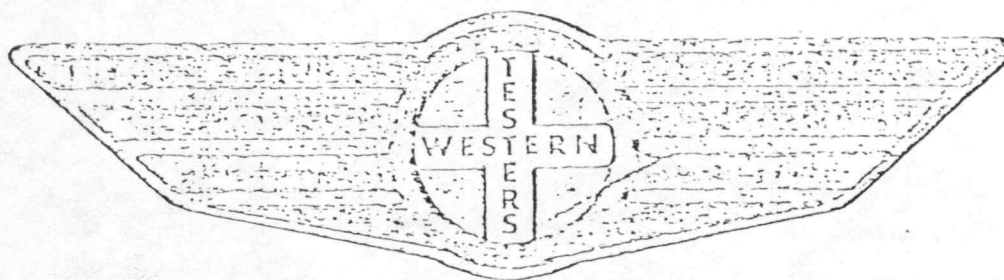
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/7/85 TICKET #10401
CUSTOMER: RANGE OIL COMPANY INC. LEASE: WILLIAMS 'C'
WELL: 1 TEST: 4 GEOLOGIST: OLSEN
ELEVATION (KB): 1698 FORMATION: CONGLOMERATE
SECTION: 7 TOWNSHIP: 18S
RANGE: 6W COUNTY: RICE STATE: KANSAS
GAUGE SN #13553 RANGE: 4025 CLOCK: 12

INTERVAL TEST FROM: 3272 FT TO: 3285 FT TOTAL DEPTH: 3285 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3267 FT SIZE: 6 5/8 IN PACKER DEPTH: 3272 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE
MUD TYPE: STARCH VISCOSITY: 37
WEIGHT: 9.7 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.): 74000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 117 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3134 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 13 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: INITIAL FLOW PERIOD WEAK 1" BLOW; FLUSHED TOOL
GOT STRONG SURGE AND BLOW. FINAL FLOW PERIOD
WEAK 1" BLOW IN BUCKET REMAINING THROUGHOUT.

RECOVERED: 70 FT OF: SLIGHTLY GAS AND OIL CUT MUD.
RECOVERED: FT OF: 25% OIL; 65% MUD; 10% WTR.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: HEAVY OIL CUT MUD INSIDE TOOL.

TIME SET PACKER(S): 9:45 P.M. TIME STARTED OFF BOTTOM: 12:45 A.M.
WELL TEMPERATURE: 106 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1690 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 33 PSI TO (C) 36 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 836 PSI
FINAL FLOW PERIOD MIN: 60 (E) 46 PSI TO (F) 46 PSI
FINAL CLOSED IN PERIOD MIN: 57 (G) 821 PSI
FINAL HYDROSTATIC PRESSURE (H) 1661 PSI

