



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7220

OK

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

Elevation 2464 GL 2471 KB Formation TORONTO - LANSING Eff. Pay Ft.

District 11 Great Bend Ks Date 6/18/85 Customer Order No.

COMPANY NAME RAINS & Williamson Oil Co. Inc.

ADDRESS 435 Page Court, 220 W Douglas Wichita KANSAS 67202

LEASE AND WELL NO. ZIEGLER A-2 COUNTY Sheridan STATE Ks Sec. 3 Twp. 10 Rge. 26 W

Mail Invoice To #2 "A" ZIEGLER Same as above No. Copies Requested 5

Mail Charts To Same as above No. Copies Requested 5

Formation Test No. #1 Interval Tested From 3796 ft. to 3850 ft. Total Depth 3850 ft.

Packer Depth 3791 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3796 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3800 ft. Recorder Number 13762 Cap. 3925

Bottom Recorder Depth (Outside) 3804 ft. Recorder Number 13759 Cap. 3900

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

Drilling Contractor RAIN & Williamson Rig #11 Drill Collar Length - I. D. - in.

Mud Type Chemical Viscosity 59 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 11.6 cc. Drill Pipe Length 3773 I. D. 3.8 in.

Chlorides 6,500 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 54 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 1/8 in. Tool Joint Size 4 1/2 XH in.

Blow: 1st opening, WEAK Blow, hose 1" into bucket, Blow Remain Thru-out
2nd opening, WEAK Surface Blow, Blow Remain Thru-out.

Recovered ft. of

Recovered ft. of

Recovered 63 ft. of Very Slightly Oil Specked MUDDY WATER 20% WATER 80% MUD

Recovered ft. of Scum of oil show in

Recovered ft. of Sample

Chlorides 16,000 P.P.M. Sample Jars used 2 Remarks:

Time On Location 3:30 A.M. Time Pick Up Tool 4:15 P.M. Time Off Location 11:00 A.M.

Time Set Packer(s) 6:05 A.M. Time Started Off Bottom 8:05 P.M. Maximum Temperature 120

Initial Hydrostatic Pressure (A) 1976 P.S.I.

Initial Flow Period Minutes 30 (B) 38 P.S.I. to (C) 38 P.S.I.

Initial Closed In Period Minutes 30 (D) 1184 P.S.I.

Final Flow Period Minutes 30 (E) 57 P.S.I. to (F) 57 P.S.I.

Final Closed In Period Minutes 30 (G) 1175 P.S.I.

Final Hydrostatic Pressure (H) 1947 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...

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 Paul Hagemeyer Signature of Customer or his authorized representative

Western Representative Ronnie Mitchell 6/18/85

1325

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$550), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint (\$65), Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

WESTERN TESTING CO., INC.

Pressure Data

Date: 6-18

Test Ticket No. 7220

Recorder No. 13762

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1972</u> P.S.I.			
B First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>37</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1187</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>49</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>50</u> P.S.I.			
G Final Closed-in Pressure	<u>1177</u> P.S.I.			
H Final Hydrostatic Mud	<u>1923</u> P.S.I.			

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: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

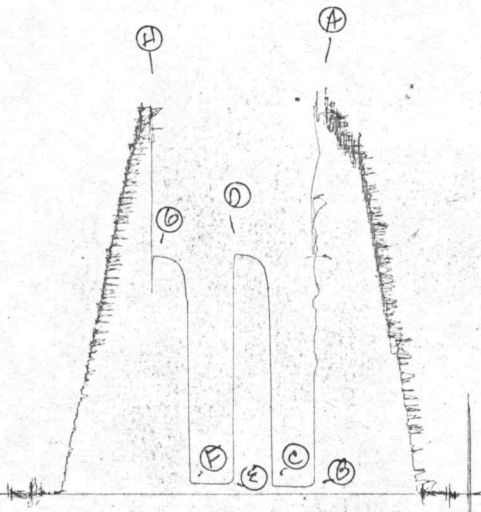
Final Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>35</u>	0	<u>37</u>	0	<u>49</u>	0	<u>50</u>
P 2 5	<u>(</u>	3	<u>913</u>	5	<u>(</u>	3	<u>955</u>
P 3 10	<u>(</u>	6	<u>1080</u>	10	<u>(</u>	6	<u>1088</u>
P 4 15	<u>(</u>	9	<u>1129</u>	15	<u>49</u>	9	<u>1128</u>
P 5 20	<u>35</u>	12	<u>1154</u>	20	<u>50</u>	12	<u>1146</u>
P 6 25	<u>36</u>	15	<u>1166</u>	25	<u>50</u>	15	<u>1160</u>
P 7 30	<u>37</u>	18	<u>1175</u>	30	<u>50</u>	18	<u>1167</u>
P 8 35		21	<u>1180</u>	35		21	<u>1171</u>
P 9 40		24	<u>1183</u>	40		24	<u>1174</u>
P10 45		27	<u>1185</u>	45		27	<u>1176</u>
P11 50		30	<u>1187</u>	50		30	<u>1177</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	

JK # 7220

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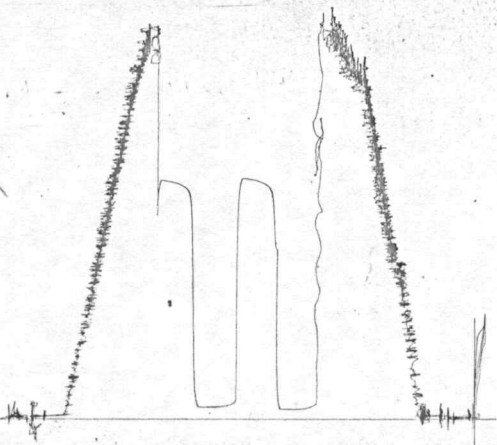
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JK # 7220

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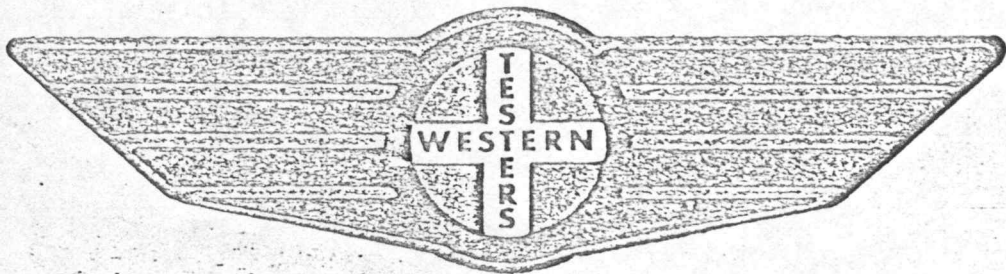
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ RAINS & WILLIAMSON OIL CO. INC. Lease & Well No. #2 "A" ZIEGLER Sec. 3 Twp. 10S Rge. 26W Test No. 1 Date 6/18/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6-18-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 2 TEST: 1
ELEVATION (KB): 2471 FORMATION: TORONTO-LANSING
SECTION: 3 TOWNSHIP: 10S
RANGE: 26W COUNTY: SHERIDAN STATE: KANSAS
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 3796 FT TO: 3850 FT TOTAL DEPTH: 3850 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3791 FT SIZE: 6 5/8 IN Packer DEPTH: 3796 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: R & W DRLG. RIG #11
MUD TYPE: CHEMICAL VISCOSITY: 59
WEIGHT: 9.8 WATER LOSS (CC): 11.6
CHLORIDES (P.P.M.): 6500
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3773 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 23 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 54 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 WEAK BLOW; HOSE 1 INCH
INTO BUCKET; BLOW REMAINED THROUGHOUT.
FINAL FLOW PERIOD WEAK SURFACE BLOW;
BLOW REMAINED THROUGHOUT.

RECOVERED: 63 FT OF: VERY SLIGHTLY OIL SPECKED MUDDY WATER
RECOVERED: FT OF: (20% WATER; 80% MUD).
RECOVERED: FT OF: SCUM OF OIL SHOW IN SAMPLE.
RECOVERED: FT OF: CHLORIDES 16000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 6:05 PM TIME STARTED OFF BOTTOM: 8:05 PM
WELL TEMPERATURE: 120 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1972 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 35 PSI TO (C) 37 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1187 PSI
FINAL FLOW PERIOD MIN: 30 (E) 49 PSI TO (F) 50 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 1177 PSI
FINAL HYDROSTATIC PRESSURE (H) 1923 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET No 7221

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

Elevation 2464GL 2471KB Formation LANSING Eff. Pay Ft.

District Great Bend KS Date 6-19-85 Customer Order No.
COMPANY NAME RAINS & Williamson Oil Inc. Co. Inc.
ADDRESS 435 Page Court, 220 West Douglas Wichita Kansas 67202
LEASE AND WELL NO. ZIEGLER A-2 COUNTY Sheridan STATE KANSAS Sec. 3 Twp. 10 Rge. 26 U
Mail Invoice To #2 'A' ZIEGLER Same as above No. Copies Requested 5
Co. Name Address No. Copies Requested 5
Mail Charts To Same as above Address No. Copies Requested 5

Formation Test No. #2 Interval Tested From 3858 ft. to 3878 ft. Total Depth 3878 ft.
Packer Depth 3853 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3858 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 3862 ft. Recorder Number 13762 Cap. 3925
Bottom Recorder Depth (Outside) 3866 ft. Recorder Number 13759 Cap. 3900
Below Saddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor RAINS & Williamson Rig # 11 Drill Collar Length - I. D. - in.
Mud Type Chemical Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 9.6 Water Loss 9.6 cc. Drill Pipe Length 3835 I. D. 3.8 in.
Chlorides 7,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 20 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 1 1/4 in.

Blow: 1st opening, Weak Surface Blow, Died in 5 minutes, Remains Dead Thru-out
2nd opening, NO Blow, Flushed Tool (got surge), Remains Dead Thru-out

Recovered - ft. of
Recovered - ft. of
Recovered 5 ft. of MUD
Recovered - ft. of
Recovered - ft. of

Chlorides - P.P.M. Sample Jars used - Remarks: (Hit Bridge at 2018) Flushed Tool
On 2nd opening at Geologist Request

Time On Location 6:00 A.M. Time Pick Up Tool 7:15 A.M. Time Off Location 1:15 A.M.
Time Set Packer(s) 9:00 A.M. Time Started Off Bottom 10:30 A.M. Maximum Temperature 120
Initial Hydrostatic Pressure (A) 1996 P.S.I.
Initial Flow Period (B) 15 Minutes 47 P.S.I. to (C) 38 P.S.I.
Initial Closed In Period (D) 30 Minutes 63 P.S.I.
Final Flow Period (E) 15 Minutes 47 P.S.I. to (F) 38 P.S.I.
Final Closed In Period (G) 30 Minutes 63 P.S.I.
Final Hydrostatic Pressure (H) 1976 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 Paul Haggen Signature of Customer or his authorized representative
Western Representative Ronnie Mitchell 6/19/85

FIELD INVOICE

Open Hole Test \$ 550
Miscrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$ 65
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

WESTERN TESTING CO., INC.
Pressure Data

Date 6-

Test Ticket No. 7221

Recorder No. 13762

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1994</u> P.S.I.	Open Tool		M
B. First Initial Flow Pressure	<u>35</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C. First Final Flow Pressure	<u>35</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
D. Initial Closed-in Pressure	<u>635</u> P.S.I.	Second Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
E. Second Initial Flow Pressure	<u>38</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>37</u> P.S.I.			
G. Final Closed-in Pressure	<u>634</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1959</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

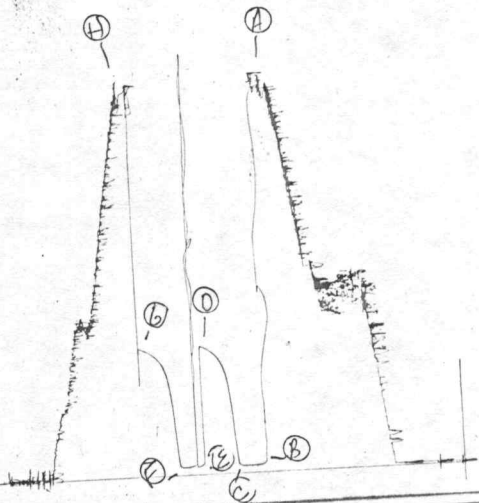
Second Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 11 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>35</u>	0	<u>35</u>	0	<u>38</u>	0	<u>37</u>
P 2 5	<u>35</u>	3	<u>62</u>	5	<u>38</u>	3	<u>110</u>
P 3 10	<u>35</u>	6	<u>275</u>	10	<u>38</u> F.T.	6	<u>344</u>
P 4 15	<u>35</u>	9	<u>447</u>	15	<u>37</u>	9	<u>484</u>
P 5 20		12	<u>523</u>	20		12	<u>541</u>
P 6 25		15	<u>568</u>	25		15	<u>572</u>
P 7 30		18	<u>595</u>	30		18	<u>593</u>
P 8 35		21	<u>613</u>	35		21	<u>609</u>
P 9 40		24	<u>625</u>	40		24	<u>620</u>
P10 45		27	<u>635</u>	45		27	<u>630</u>
P11 50		30		50		30	<u>634</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	

JK # 7221

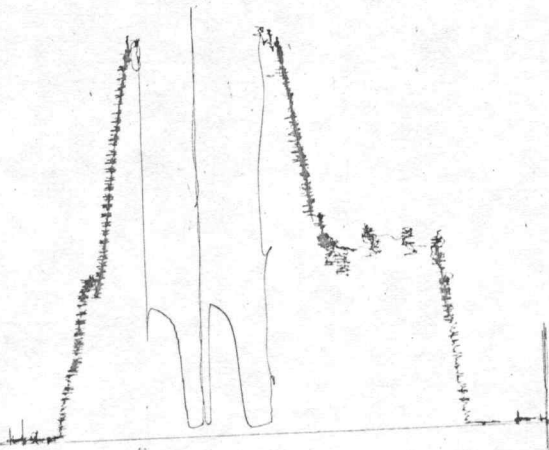
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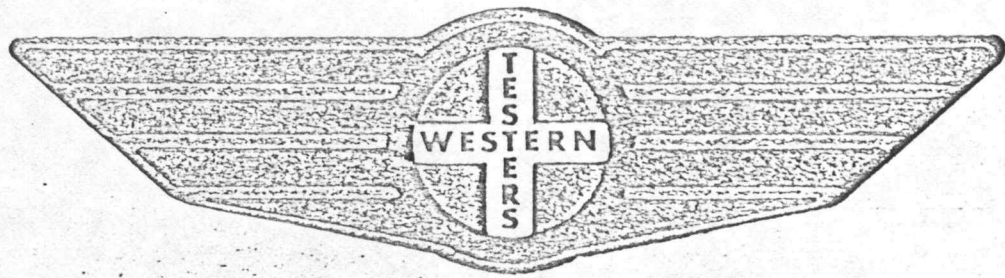


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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ RAINS & WILLIAMSON OIL CO. INC. Lease & Well No. #2 A. ZIEGLER Sec. 3 Twp. 13S Rge. 20W Test No. 4 Date 01/27/00

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/19/85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 2 TEST: 2
ELEVATION (KB): 2471 FORMATION: LANSING
SECTION: 3 TOWNSHIP: 10S
RANGE: 26W COUNTY: SHERIDAN STATE: KANSAS
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 3858 FT TO: 3878 FT TOTAL DEPTH: 3878 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3853 FT SIZE: 6 5/8 IN Packer DEPTH: 3858 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: CHEMICAL VISCOSITY: 43
WEIGHT: 9.6 WATER LOSS (CC): 9.6
CHLORIDES (P.P.M.): 7000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3835 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 23 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 20 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 WEAK SURFACE BLOW.
DIED IN 5 MINUTES. FINAL FLOW PERIOD NO
BLOW. FLUSHED TOOL AT GEOLOGISTS
REQUEST; GOT SURGE.

RECOVERED: 5 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: HIT BRIDGE AT 2018 FEET.

TIME SET PACKER(S): 9:00 AM TIME STARTED OFF BOTTOM: 10:30 AM
WELL TEMPERATURE: 120 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1994 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 35 PSI TO (C) 35 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 635 PSI
FINAL FLOW PERIOD MIN: 15 (E) 38 PSI TO (F) 37 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 634 PSI
FINAL HYDROSTATIC PRESSURE (H) 1959 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET No 7222

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

Elevation 2464 GL 2471 KB Formation LANING Eff. Pay Ft.

COMPANY NAME Rains & Williamson Oil Co. Inc. District Great Bend KS Date 6-19-85 Customer Order No.

ADDRESS 435 Page Court, 220 West Douglas Wichita Kansas 67202

LEASE AND WELL NO. ZIEGLER-2 COUNTY Sheridan STATE KANSAS Sec. 3 Twp. 10 Rge. 26 W
Mail Invoice To #2 "A" ZIEGLER Same as above No. Copies Requested

Mail Charts To Same as above No. Copies Requested

Formation Test No. #3 Interval Tested From 3875 ft. to 3895 ft. Total Depth 3895 ft.
Packer Depth 3870 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.
Packer Depth 3875 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set
Top Recorder Depth (Inside) 3879 ft. Recorder Number 13762 Cap. 3925
Bottom Recorder Depth (Outside) 3883 ft. Recorder Number 13759 Cap. 3900
Below Saddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Rig II Drill Collar Length - I. D. - in.
Mud Type Chemical Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 9.6 Water Loss 9.6 cc. Drill Pipe Length 3852 I. D. 3.8 in.
Chlorides 7,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.
Jars: Make - Serial Number - Anchor Length 20 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 7/8 in. Tool Joint Size 4 1/2 x H in.

Blow: 1st opening weak surface blow, died in 8 min. Remain Dead Thru-out
2nd opening, NO BLOW flushed tool (got surge) Remain Dead Thru-out

Recovered 3 ft. of MUD (Few specks of oil in tool)
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of

Chlorides - P.P.M. Sample Jars used - Remarks: Geologist Requested To Flush Tool
Flush did not show on chart (although we did flush tool)

Time On Location 5:30 A.M. Time Pick Up Tool 6:45 P.M. Time Off Location 12:45 P.M.

Time Set Packer(s) 8:10 P.M. Time Started Off Bottom 9:40 P.M. Maximum Temperature 120

Initial Hydrostatic Pressure (A) 2005 P.S.I.
Initial Flow Period (B) 47 P.S.I. to (C) 47 P.S.I.
Initial Closed In Period (D) 30 P.S.I.
Final Flow Period (E) 15 P.S.I. to (F) 57 P.S.I.
Final Closed In Period (G) 30 P.S.I.
Final Hydrostatic Pressure (H) 1966 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 Paul Hagmin Signature of Customer or his authorized representative

Western Representative Ronnie Mitchell 6-19/85

FIELD INVOICE

Table with 2 columns: Item and Price. Items include Open Hole Test (\$550), Safety Joint (\$65), and TOTAL.

1325

WESTERN TESTING CO., INC.

Pressure Data

Date: 6-19

Test Ticket No. 7222

Recorder No. 13762

Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2005</u> P.S.I.			
B. First Initial Flow Pressure	<u>36</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C. First Final Flow Pressure	<u>36</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>795</u> P.S.I.	Second Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
E. Second Initial Flow Pressure	<u>36</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>36</u> P.S.I.			
G. Final Closed-in Pressure	<u>727</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1951</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 4 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: 4 Inc.
of 5 mins. and a
final inc. of 0 Min.

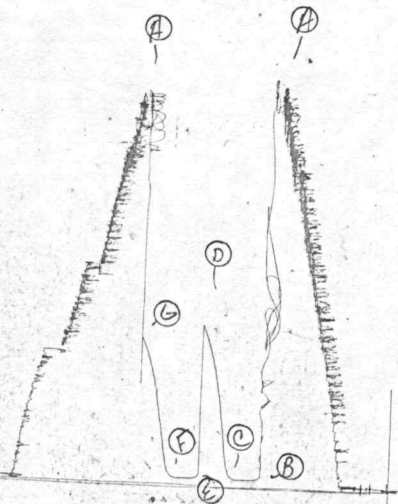
Final Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>36</u>	0	<u>36</u>	0	<u>36</u>	0	<u>36</u>
P 2 5	<u>36</u>	3	<u>39</u>	5	<u>36</u>	3	<u>38</u>
P 3 10	<u>36</u>	6	<u>56</u>	10	<u>36</u>	6	<u>48</u>
P 4 15	<u>36</u>	9	<u>139</u>	15	<u>36</u>	9	<u>99</u>
P 5 20		12	<u>292</u>	20		12	<u>214</u>
P 6 25		15	<u>437</u>	25		15	<u>334</u>
P 7 30		18	<u>552</u>	30		18	<u>463</u>
P 8 35		21	<u>643</u>	35		21	<u>547</u>
P 9 40		24	<u>713</u>	40		24	<u>626</u>
P10 45		27	<u>767</u>	45		27	<u>682</u>
P11 50		30	<u>795</u>	50		30	<u>727</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	

NY # 7222

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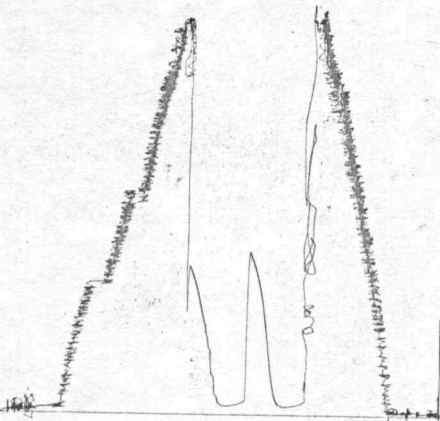
13762



PK # 7222

0

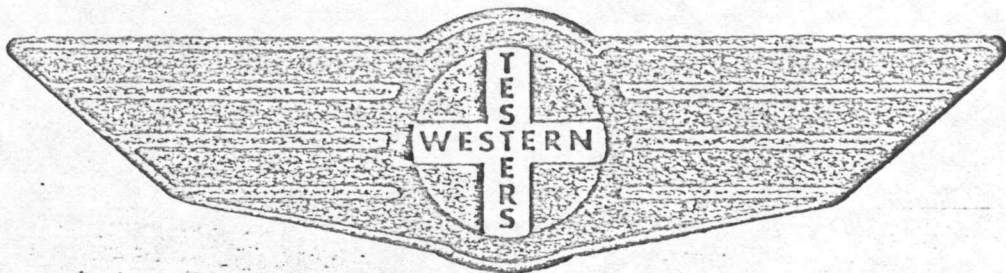
13759



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ RAINS & WILLIAMSON OIL CO. INC. Lease & Well No. #2 "A" ZIEGLER Sec. 3 Twp. 10S Rge. 26W Test No. 3 Date 6/19/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6-19-85 TICKET #7222
CUSTOMER: RAINS & WILLIAMSON OIL CO INC LEASE: "A" ZIEGLER
WELL: 2 TEST: 3 GEOLOGIST: P. HAGEMEIER
ELEVATION (KB): 2471 FORMATION: LANSING
SECTION: 3 TOWNSHIP: 10S
RANGE: 26W COUNTY: SHERIDAN STATE: KANSAS
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 3875 FT TO: 3895 FT TOTAL DEPTH: 3895 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3870 FT SIZE: 6 5/8 IN PACKER DEPTH: 3875 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: R & W DRLG. RIG #11
MUD TYPE: CHEMICAL VISCOSITY: 43
WEIGHT: 9.6 WATER LOSS (CC): 9.6
CHLORIDES (P.P.M.): 7000

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

DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3852 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 23 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 20 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 WEAK SURFACE BLOW;
DIED IN 8 MINUTES; REMAINED DEAD THROUGHOUT.
FINAL FLOW PERIOD NO BLOW; FLUSHED TOOL;
(GOT SURGE); REMAINED DEAD THROUGHOUT.

RECOVERED: 3 FT OF: MUD (FEW SPECKS OF OIL IN TOOL).
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: GEOLOGIST REQUESTED TO FLUSH TOOL;
FLUSH DID NOT SHOW ON CHART
(ALTHOUGH WE DID FLUSH TOOL).

TIME SET PACKER(S): 8:10 PM TIME STARTED OFF BOTTOM: 9:40 PM
WELL TEMPERATURE: 120 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2005 PSI
INITIAL FLOW PERIOD MIN: 15 (B) 36 PSI TO (C) 36 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 795 PSI
FINAL FLOW PERIOD MIN: 15 (E) 36 PSI TO (F) 36 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 727 PSI
FINAL HYDROSTATIC PRESSURE (H) 1951 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET No 7223

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

Elevation 2471 Formation LAUSING Eff. Pay Ft.

District 11 District 01 Bend Ks Date 6-20-85 Customer Order No. ✓
COMPANY NAME RAINSON, Williamson Oil Inc Co. Inc.

ADDRESS 435 PAGE COURT 220 W Douglas Wichita Ks 67202

LEASE AND WELL NO. ZIEGLER #A-2 COUNTY Sheridan STATE KS Sec. 3 Twp. 10 Rge. 26 W

Mail Invoice To #2 "A" ZIEGLERSAME No. Copies Requested 5

Co. Name Address No. Copies Requested 5

Mail Charts To Same Address No. Copies Requested 5

Formation Test No. #4 Interval Tested From 3960 ft. to 3990 ft. Total Depth 3990 ft.

Packer Depth 3955 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3960 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3964 ft. Recorder Number 13762 Cap. 3925

Bottom Recorder Depth (Outside) 3968 ft. Recorder Number 13759 Cap. 3900

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

Drilling Contractor Rainson + Williamson Rig 11 Drill Collar Length - I. D. - in.

Mud Type Chemical Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 9.4 cc. Drill Pipe Length 3937 I. D. 3.8 in.

Chlorides 7,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 30 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 7/8 in. Tool Joint Size 4 1/2 x 4 in.

Blow: 1st opening, weak surface blow, died in 4 min, remain dead thru out

2nd opening, no blow flushed tool joint surge, remain dead thru out

Recovered 3' ft. of Mud / w few specks of oil in tool

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Chlorides - P.P.M. Sample Jars used 1 Remarks: Flushed Tool at Geologist Request

Time On Location 12:30 A.M. Time Pick Up Tool 1:00 P.M. Time Off Location 7:00 A.M.

Time Set Packer(s) 2:25 A.M. Time Started Off Bottom 3:50 P.M. Maximum Temperature 122

Initial Hydrostatic Pressure (A) 2055 P.S.I.

Initial Flow Period Minutes 10 (B) 28 P.S.I. to (C) 28 P.S.I.

Initial Closed In Period Minutes 30 (D) 37 P.S.I.

Final Flow Period Minutes 15 (E) 38 P.S.I. to (F) 38 P.S.I.

Final Closed In Period Minutes 30 (G) 57 P.S.I.

Final Hydrostatic Pressure (H) 2035 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 Paul Hagemeier
Signature of Customer or his authorized representative

Western Representative Ronnie Mitchell

FIELD INVOICE

Open Hole Test	\$ 550
Misrun	\$
Straddle Test	\$
Jars	\$
Selective Zone	\$
Safety Joint	\$ 65
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$
Telecopier	\$
TOTAL	\$

BDS

WESTERN TESTING CO., INC.
Pressure Data

Date: 6-20

Test Ticket No. 7223

Recorder No. 13762

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2053</u> P.S.I.	Open Tool		M
B. First Initial Flow Pressure	<u>29</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C. First Final Flow Pressure	<u>29</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>49</u> P.S.I.	Second Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
E. Second Initial Flow Pressure	<u>38</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>29</u> P.S.I.			
G. Final Closed-in Pressure	<u>46</u> P.S.I.			
H. Final Hydrostatic Mud	<u>2008</u> P.S.I.			

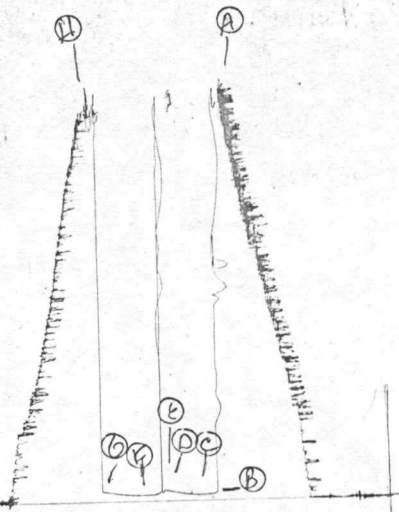
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>4</u> Inc.		Breakdown: <u>11</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	<u>29</u>	0	<u>29</u>	0	<u>38</u>	0	<u>29</u>
P 2 5	<u>29</u>	3	<u>29</u>	5	<u>31</u> FIT	3	<u>29</u>
P 3 10	<u>29</u>	6	<u>29</u>	10	<u>30</u>	6	<u>29</u>
P 4 15		9	<u>30</u>	15	<u>29</u>	9	<u>30</u>
P 5 20		12	<u>31</u>	20		12	<u>31</u>
P 6 25		15	<u>33</u>	25		15	<u>32</u>
P 7 30		18	<u>36</u>	30		18	<u>34</u>
P 8 35		21	<u>39</u>	35		21	<u>37</u>
P 9 40		24	<u>42</u>	40		24	<u>40</u>
P10 45		27	<u>45</u>	45		27	<u>43</u>
P11 50		30	<u>49</u>	50		30	<u>46</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	

St # 7223

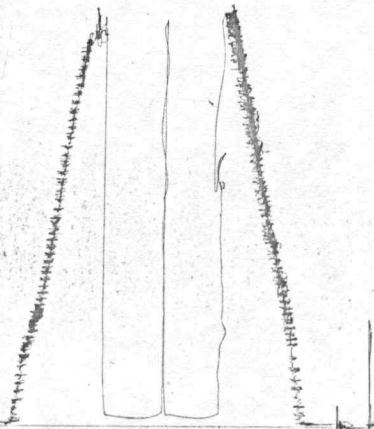
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13762



It #7223
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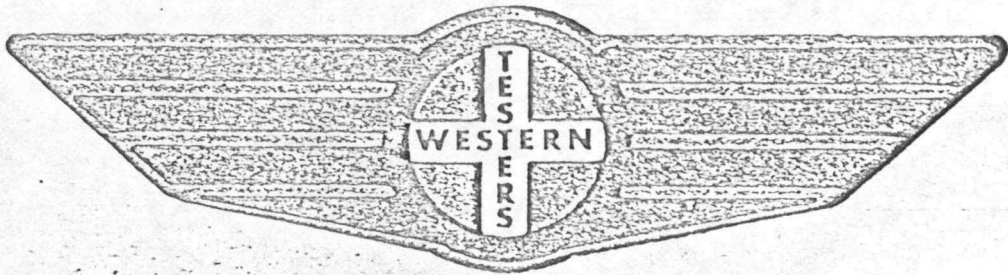
13759



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ RAINS & WILLIAMSON OIL CO. INC. Lease & Well No. #2 "A" ZIEGLER Sec. 3 Twp. 10S Rge. 26W Test No. 4 Date 6/20/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6-20-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 2 TEST: 4
ELEVATION (KB): 2471 FORMATION: LANSING
SECTION: 3 TOWNSHIP: 10S
RANGE: 26W COUNTY: SHERIDAN STATE: KANSAS
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 3960 FT TO: 3990 FT TOTAL DEPTH: 3990 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3955 FT SIZE: 6 5/8 IN PACKER DEPTH: 3960 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: R & W DRLG. RIG #11
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 9.4 WATER LOSS (CC): 9.4
CHLORIDES (P.P.M.): 7000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3937 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 23 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 30 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 WEAK SURFACE BLOW;
DIED IN 4 MINUTES; REMAINED DEAD THROUGHOUT.
FINAL FLOW PERIOD NO BLOW; FLUSHED TOOL;
GOT SURGE; REMAINED DEAD THROUGHOUT.

RECOVERED: 3 FT OF: MUD WITH A FEW SPECKS OF OIL IN TOOL.
RECOVERED: FT OF:
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: FLUSHED TOOL AT GEOLOGISTS REQUEST.

TIME SET PACKER(S): 2:25 PM TIME STARTED OFF BOTTOM: 3:50 PM
WELL TEMPERATURE: 122 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2053 PSI
INITIAL FLOW PERIOD MIN: 10 (B) 29 PSI TO (C) 29 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 49 PSI
FINAL FLOW PERIOD MIN: 15 (E) 38 PSI TO (F) 29 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 46 PSI
FINAL HYDROSTATIC PRESSURE (H) 2008 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7224

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

Elevation 2464 GL 2471 KB Formation LAUNING - KANSAS CITY Eff. Pay Ft.

District 11 Great Bend KS Date 6-21-85 Customer Order No.
COMPANY NAME Rain & Williamson Oil Co. Inc.
ADDRESS 435 Page Court 220 W Douglas Wichita Kansas 67202
LEASE AND WELL NO. ZIEGLER A-2 COUNTY Sheridan STATE KANSAS Sec. 3 Twp 10 Rge. 28 U
Mail Invoice To #2 "A" ZIEGLER Same No. Copies Requested 5
Co. Name SAME Address No. Copies Requested 5

Formation Test No. #5 Interval Tested From 4006 ft. to 4030 ft. Total Depth 4030 ft.
Packer Depth 4001 ft. Size 6 3/8 in. Packer Depth ft. Size in.
Packer Depth 4006 ft. Size 6 3/8 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4010 ft. Recorder Number 13762 Cap. 3925
Bottom Recorder Depth (Outside) 4014 ft. Recorder Number 13759 Cap. 3900
Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Rain & Williams Rig #11 Drill Collar Length I. D. in.
Mud Type Chemical Viscosity 42 Weight Pipe Length I. D. in.
Weight 9.5 Water Loss 9.4 cc. Drill Pipe Length 3983 I. D. 3.8 in.
Chlorides 7,000 P.P.M. Test Tool Length 23 ft. Tool Size 5 1/2 OD in.
Jars: Make Serial Number Anchor Length 24 ft. Size 5 1/2 OD in.
Did Well Flow? Reversed Out Surface 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, Died in 6 min. Remain Dead Thru-out
2nd opening, No Blow, Flushed Tool Remain Dead Thru-out

Recovered ft. of
Recovered 1 ft. of Mud / with FEW oil specks IN TOOL /
Recovered ft. of
Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks: Flushed Tool at Geologist Request
Flush did not show upon charts (Although we did flush tool)

Time On Location 1:00 A.M. Time Pick Up Tool 2:45 A.M. Time Off Location A.M.
P.M. P.M. P.M.

Time Set Packer(s) 4:40 A.M. Time Started Off Bottom 6:10 A.M. Maximum Temperature 124°
P.M. P.M.

Initial Hydrostatic Pressure (A) 2065 P.S.I.
Initial Flow Period Minutes 30 (B) 38 P.S.I. to (C) 38 P.S.I.
Initial Closed In Period Minutes 30 (D) 38 P.S.I.
Final Flow Period Minutes 30 (E) 38 P.S.I. to (F) 38 P.S.I.
Final Closed In Period Minutes 30 (G) 38 P.S.I.
Final Hydrostatic Pressure (H) 2045 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 Paul Hager
Signature of Customer or his authorized representative

Western Representative Ronnie Mitchell 6/21/85

FIELD INVOICE

Open Hole Test \$ 595
Misc \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$ 65
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

1325

WESTERN TESTING CO., INC.
Pressure Data

Date: 6-21

Test Ticket No. 7224

Recorder No. 13762

Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2057</u>	P.S.I.		
B. First Initial Flow Pressure	<u>29</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>29</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>31</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E. Second Initial Flow Pressure	<u>29</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>29</u>	P.S.I.		
G. Final Closed-in Pressure	<u>29</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>1988</u>	P.S.I.		

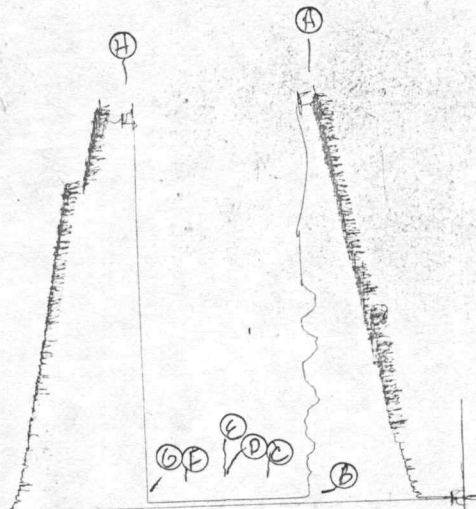
PRESSURE BREAKDOWN

Point Mins.	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>29</u>	0	<u>29</u>	0	<u>29</u>	0	<u>29</u>	
P 2 5	}	3	}	5	}	3	}	
P 3 10		6		6		6		
P 4 15		9		9		9		
P 5 20		12		12		12		
P 6 25		15		<u>29</u>		15		<u>29</u>
P 7 30	<u>29</u>	18	<u>29</u>	18	<u>29</u>	18	}	
P 8 35	}	21	<u>30</u>	21	}	21		
P 9 40		24	<u>30</u>	24				
P10 45		27	<u>31</u>	27				
P11 50	}	30	<u>31</u>	30	}	30		<u>29</u>
P12 55		33	33	33				
P13 60		36	36	36				
P14 65		39	39	39				
P15 70	}	42	42	42	}	42		
P16 75		45	45	45				
P17 80		48	48	48				
P18 85		51	51	51				
P19 90	}	54	54	54	}	54		
P19 95		57	57	57				
P20 100		60	60	60				

214 # 7224

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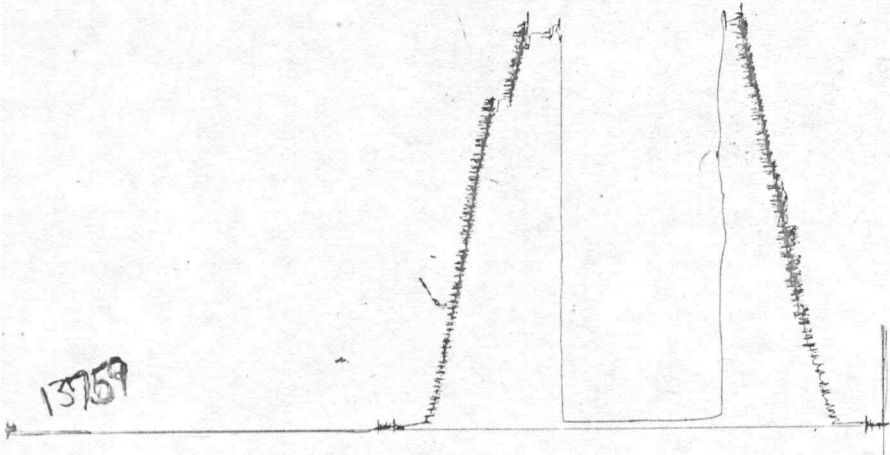
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JK # 7224
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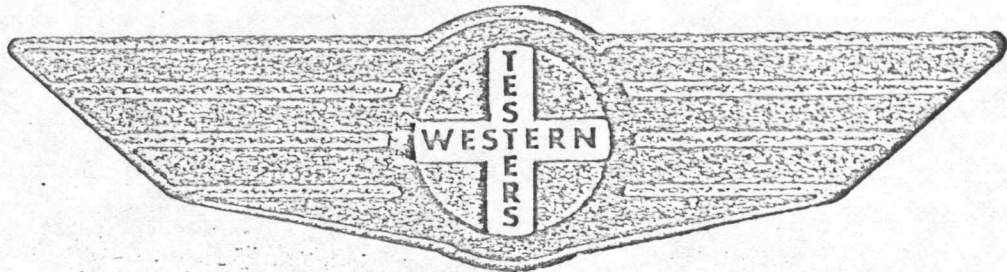
13759



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ RAINS & WILLIAMSON OIL CO. INC. Lease & Well No. _____ # 7 A 416666
Sec. _____ Twp. _____ Rge. _____ Test No. _____ Date _____

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6-21-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 2 TEST: 5
ELEVATION (KB): 2471 FORMATION: LANSING/KANSAS CITY
SECTION: 3 TOWNSHIP: 10S
RANGE: 26W COUNTY: SHERIDAN STATE: KANSAS
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 4006 FT TO: 4030 FT TOTAL DEPTH: 4030 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4001 FT SIZE: 6 5/8 IN PAKER DEPTH: 4006 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: R & W DRLG. RIG #11
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 9.5 WATER LOSS (CC): 9.4
CHLORIDES (P.P.M.): 7000

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

DRILL COLLAR LENGTH: FT I.D.: IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3983 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 23 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 24 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 WEAK SURFACE BLOW;
DIED IN 6 MINUTES; REMAINED DEAD THROUGHOUT.
FINAL FLOW PERIOD NO BLOW; FLUSHED TOOL;
REMAINED DEAD THROUGHOUT.

RECOVERED: 1 FT OF: MUD WITH FEW OIL SPECKS IN TOOL.
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: FLUSHED TOOL AT GEOLOGISTS REQUEST;
FLUSH DID NOT SHOW ON CHARTS
(ALTHOUGH WE DID FLUSH TOOL).

TIME SET PACKER(S): 4:40 AM TIME STARTED OFF BOTTOM: 6:40 PM
WELL TEMPERATURE: 124 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2057 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 29 PSI TO (C) 29 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 31 PSI
FINAL FLOW PERIOD MIN: 30 (E) 29 PSI TO (F) 29 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 29 PSI
FINAL HYDROSTATIC PRESSURE (H) 1988 PSI

