



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7616

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

Elevation 1829 KB Formation Toronto Eff. Pay Ft.

WICHITA, KANSAS 67201

District Great Bend Date 2-9-85 Customer Order No.

COMPANY NAME Rains & Williamson Oil Co. Inc.

ADDRESS 435 Page Court, W. Douglas Wichita, Ks 67202

LEASE AND WELL NO. Rankin #6 COUNTY Russell STATE Ks Sec 32 Twp 13 Rge 12W

Mail Invoice To Same as above No. Copies Requested 5

Co. Name " " " " Address #6 RANKIN No. Copies Requested 5

Mail Charts To " " " " Address

Formation Test No. 1 Interval Tested From 2870 ft. to 2907 ft. Total Depth 2907 ft.

Packer Depth 2865 ft. Size 6 5/8 in. Packer Depth - ft. Size 5 in.

Packer Depth 2870 ft. Size 6 3/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2890 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 2893 ft. Recorder Number 11028 Cap. 4300

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Co. Tools Rig #9 Drill Collar Length 150' I. D. 2.2 in.

Mud Type Starch Viscosity 41 Weight Pipe Length 2699' I. D. 2.7 in.

Weight 9.1 Water Loss 10.2 cc. Drill Pipe Length 2699' I. D. 3.8 in.

Chlorides 67,000 P.P.M. Test Tool Length 21 ft. Tool Size 5/8" OD in.

Jars: Make Serial Number Anchor Length 37 ft. Size 5/8" OD in.

Did Well Flow? Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/8 in.

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

Blow FFP - Very weak 1/4" decreasing blow, died in 22 min

FFP - No blow Recovered 20' ft. of Watery mud - 12% water - No oil show

Recovered ft. of Recovered ft. of Recovered ft. of Recovered ft. of

Chlorides 67,000 P.P.M. Sample Jars used 1 Remarks: Diesel was used in blow bucket

Time On Location 3:55 A.M. Time Pick Up Tool 4:50 P.M. Time Off Location 10:15 A.M.

Time Set Packer(s) 6:15 P.M. Time Started Off Bottom 8:15 P.M. Maximum Temperature 90+

Initial Hydrostatic Pressure (A) 1550 P.S.I. Initial Flow Period (B) 30 Minutes (C) 50 P.S.I.

Initial Closed Period (D) 30 Minutes (E) 995 P.S.I. Final Flow Period (F) 30 Minutes (G) 50 P.S.I.

Final Closed Period (H) 30 Minutes (I) 958 P.S.I. Final Hydrostatic Pressure (J) 1550 P.S.I.

RECEIVED FEB 13 1985

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Stephen M. Keidler Signature of Customer or his authorized representative

Western Representative Gene Clark, 0500

FIELD INVOICE 550

Table with 2 columns: Item Name and 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, and TOTAL.

WESTERN TESTING CO., INC.
Pressure Data

Date: 2/19/85 Test Ticket No. 7615
 Recorder No. 6077 Capacity _____ Location _____ Ft
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1557</u> P.S.I.	_____ M		
B First Initial Flow Pressure	<u>48</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	_____ Mins.
C First Final Flow Pressure	<u>48</u> P.S.I.	Initial Closed-in Pressure		_____ Mins.
D Initial Closed-in Pressure	<u>970</u> P.S.I.	Second Flow Pressure		_____ Mins.
E Second Initial Flow Pressure	<u>49</u> P.S.I.	Final Closed-in Pressure		_____ Mins.
F Second Final Flow Pressure	<u>49</u> P.S.I.			
G Final Closed-in Pressure	<u>947</u> P.S.I.			
H Final Hydrostatic Mud	<u>1522</u> P.S.I.			

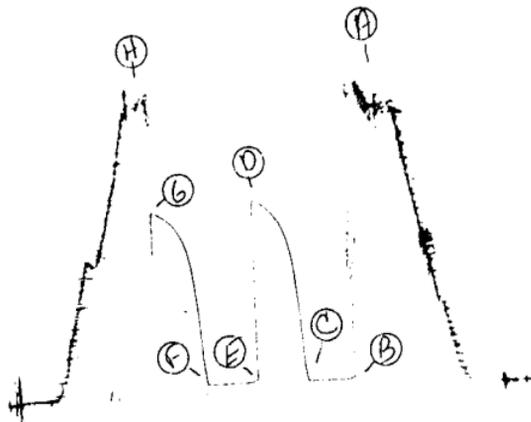
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>7</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>48</u>	0	<u>48</u>	0	<u>49</u>	0	<u>49</u>
P 2 5		3	<u>321</u>	5		3	<u>234</u>
P 3 10		6	<u>591</u>	10		6	<u>514</u>
P 4 15		9	<u>734</u>	15		9	<u>672</u>
P 5 20		12	<u>824</u>	20		12	<u>757</u>
P 6 25		15	<u>874</u>	25		15	<u>815</u>
P 7 30	<u>48</u>	18	<u>912</u>	30	<u>49</u>	18	<u>855</u>
P 8 35		21	<u>936</u>	35		21	<u>884</u>
P 9 40		24	<u>961</u>	40		24	<u>907</u>
P10 45		27	<u>978</u>	45		27	<u>925</u>
P11 50		30	<u>990</u>	50		30	<u>947</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	

607?

TKT # 7616

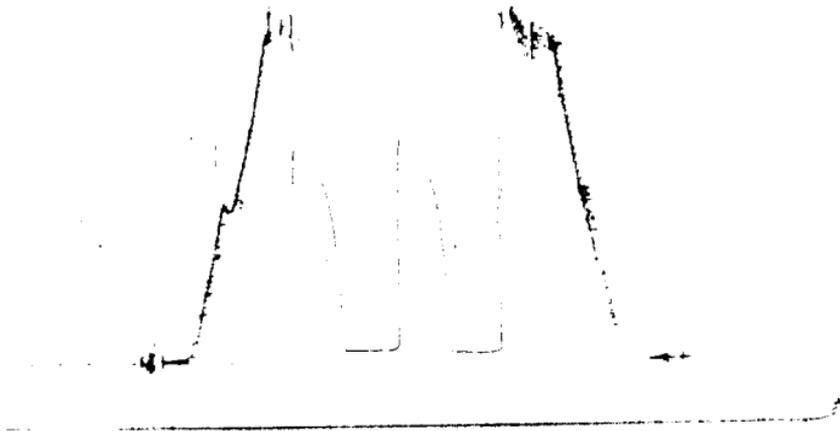
I



11.028.

TKT # 7616

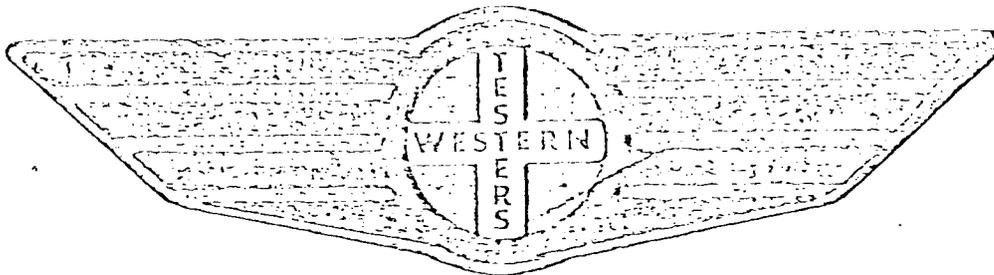
0



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/9/85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 6 TEST: 1
ELEVATION (KB): 1829 FORMATION: TORONTO
SECTION: 32 TOWNSHIP: 13S
RANGE: 12W COUNTY: RUSSELL STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

TICKET #7616
LEASE: RANKIN
GEOLOGIST: KNIEDLER

INTERVAL TEST FROM: 2870 FT TO: 2907 FT TOTAL DEPTH: 2907 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2865 FT SIZE: 6 5/8 IN PACKER DEPTH: 2870 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: CO TOOLS
MUD TYPE: STARCH VISCOSITY: 41
WEIGHT: 9.7 WATER LOSS (CC): 10.2
CHLORIDES (P.P.M.): 67000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?

DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2699 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 37 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 VERY WEAK 1/4"
BLOW DECREASING TO DEAD IN 22 MINUTES.
FINAL FLOW PERIOD NO BLOW.

RECOVERED: 20 FT OF: WATERY MUD; 12% WTR; NO OIL SHOW.
RECOVERED: FT OF: CHLORIDES 61000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: DIESEL FUEL USED IN BLOW BUCKET.

TIME SET PACKER(S): 6:15 A.M. TIME STARTED OFF BOTTOM: 8:15 A.M.
WELL TEMPERATURE: 90 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1557 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 48 PSI TO (C) 48 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 990 PSI
FINAL FLOW PERIOD MIN: 30 (E) 49 PSI TO (F) 49 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 947 PSI
FINAL HYDROSTATIC PRESSURE (H) 1522 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. *OK* 7617

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

Elevation *1829 KB* Formation *Leasing* Eff. Pay Ft.

District *6B* Date *2/9/85* Customer Order No.

COMPANY NAME *Rains & Williamson Oil Co.*
ADDRESS *435 Page Court. 300 West Douglas, Wichita, KS 67202*

LEASE AND WELL NO. *Rankin #6* COUNTY *Russell* STATE *KS* Sec *32* Twp *13* Rge. *12W*

Mail Invoice To *Same* No. Copies Requested *5*

Co. Name *Same #6 RANKIN* Address *Same* No. Copies Requested *5*

Formation Test No. *II* Interval Tested From *2977* ft. to *3000* ft. Total Depth *3000* ft.

Packer Depth *2972* ft. Size *6 3/8* in. Packer Depth *✓* ft. Size *✓* in.

Packer Depth *2977* ft. Size *6 3/8* in. Packer Depth *✓* ft. Size *✓* in.

Depth of Selective Zone Set *✓*

Top Recorder Depth (Inside) *2992* ft. Recorder Number *6077* Cap. *4700*

Bottom Recorder Depth (Outside) *2995* ft. Recorder Number *11028* Cap. *4300*

Below Saddle Recorder Depth *✓* ft. Recorder Number *✓* Cap. *✓*

Drilling Contractor *Co tool by #9* Drill Collar Length *150* I. D. *2 1/2* in.

Mud Type *starch* Viscosity *41* Weight Pipe Length *2806* I. D. *3 1/8* in.

Weight *9.9* Water Loss *12.2* cc. Drill Pipe Length *21* ft. Tool Size *5 1/2 OD* in.

Chlorides *5200* P.P.M. Test Tool Length *23* ft. Size *5 1/2 OD* in.

Jars: Make *✓* Serial Number *✓* Anchor Length *34* in. Bottom Choke Size *34* in.

Did Well Flow? *✓* Reversed Out *✓* Surface Choke Size *778* in. Tool Joint Size *4 1/2 XH* in.

Blow: *Weak 1/2" decreasing blow; during trip*

FFI weak decreasing to only a surface blow at end of period;

Recovered *30'* ft. of *Slightly oil speck mud - 48 oil*

Recovered *✓* ft. of

Recovered *✓* ft. of

Recovered *✓* ft. of

Chlorides *✓* P.P.M. Sample Jars used *1* Remarks: *Slid tool 3' to bottom before opening*

Time On Location *6:50* *A.M.* Time Pick Up Tool *7:50* *P.M.* Time Off Location *2:40* *A.M.*

Time Set Packer(s) *9:00* *P.M.* Time Started Off Bottom *11:30* *P.M.* Maximum Temperature *94°*

Initial Hydrostatic Pressure (A) *1598* P.S.I.

Initial *30* Minutes (B) *37* P.S.I. to (C) *50* P.S.I.

Initial *30* Minutes (D) *100* P.S.I.

Final *45* Minutes (E) *62* P.S.I. to (F) *602* P.S.I.

Final *45* Minutes (G) *137* P.S.I.

Final *1598* P.S.I. (H)

RECEIVED
FEB 13 1985

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By *[Signature]*
Signature of Customer or his authorized representative

Western Representative *Dene Cherkov 0500*

FIELD INVOICE

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

WESTERN TESTING CO., INC.

Pressure Data

Date: 2/19/85 Test Ticket No. 7617
 Recorder No. 6077 Capacity _____ Location _____ Ft _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F _____

Point	Pressure	P.S.I.	Open Tool	M	Time Given	Time Computed
A Initial Hydrostatic Mud	1593	P.S.I.				
B First Initial Flow Pressure	34	P.S.I.	First Flow Pressure		30	Mins. _____ Mins. _____
C First Final Flow Pressure	42	P.S.I.	Initial Closed-in Pressure		30	Mins. _____ Mins. _____
D Initial Closed-in Pressure	95	P.S.I.	Second Flow Pressure		45	Mins. _____ Mins. _____
E Second Initial Flow Pressure	51	P.S.I.	Final Closed-in Pressure		45	Mins. _____ Mins. _____
F Second Final Flow Pressure	53	P.S.I.				
G Final Closed-in Pressure	120	P.S.I.				
H Final Hydrostatic Mud	1522	P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 9 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: 10 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

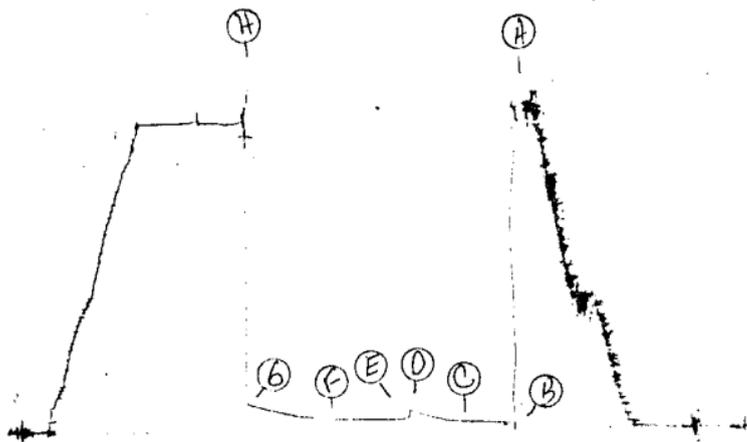
Final Shut-In
 Breakdown: 17 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	34	0	42	0	51	0	53
P 2 5	34	3	42	5	51	3	53
P 3 10	34	6	42	10	51	6	56
P 4 15	36	9	44	15	51	9	59
P 5 20	38	12	49	20	51	12	61
P 6 25	40	15	55	25	51	15	64
P 7 30	42	18	61	30	51	18	66
P 8 35		21	69	35	52	21	69
P 9 40		24	76	40	52	24	75
P10 45		27	83	45	53	27	81
P11 50		30	95	50		30	87
P12 55		33		55		33	93
P13 60		36		60		36	98
P14 65		39		65		39	105
P15 70		42		70		42	113
P16 75		45		75		45	119
P17 80		48		80		48	126
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

6011

TKI # 7617

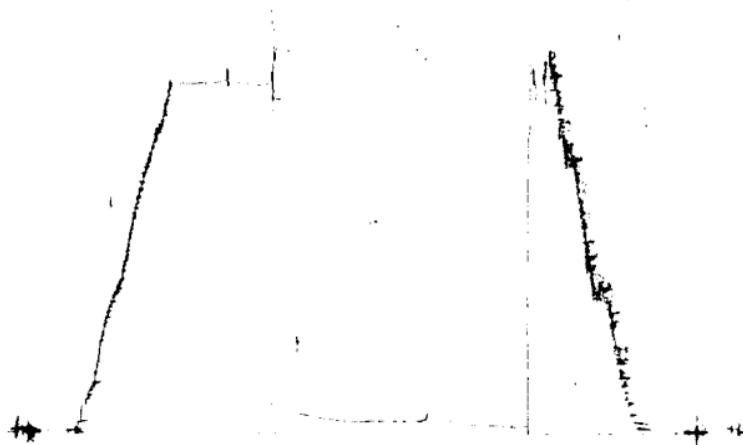
I



11028

TKT #7617

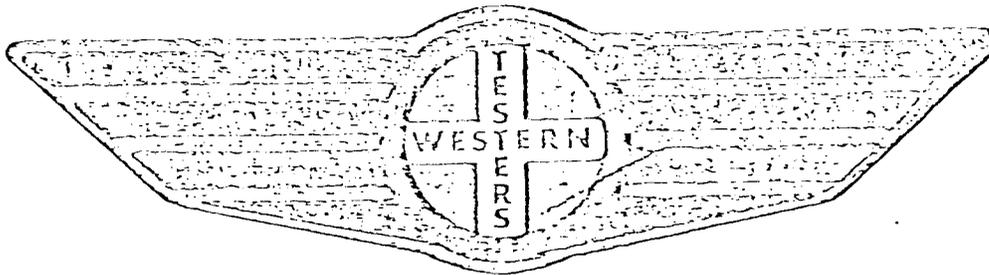
0



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RAINS & WILLIAMSON OIL CO INCREASE and Well No. #6 RANKIN
Sec. 32
Type 13S
Xpe. 12W
Date Recd. 2

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/9/85
 CUSTOMER: RAINS & WILLIAMSON OIL CO INC
 WELL: 6 TEST: 2
 ELEVATION (KB): 1829 FORMATION: LANSING
 SECTION: 32 TOWNSHIP: 13S
 RANGE: 12W COUNTY: RUSSELL STATE: KANSAS
 GAUGE SN #6077 RANGE: 4700 CLOCK: 12

TICKET #7617
 LEASE: RANKIN
 GEOLOGIST: KNEIDLER

INTERVAL TEST FROM: 2977 FT TO: 3000 FT TOTAL DEPTH: 3000 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 2972 FT SIZE: 6 5/8 IN PACKER DEPTH: 2977 FT SIZE: 6 5/8 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: CO TOOLS
 MUD TYPE: STARCH VISCOSITY: 41
 WEIGHT: 9.9 WATER LOSS (CC): 12.2
 CHLORIDES (P.P.M.): 52000
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? REVERSED OUT?
 DRILL COLLAR LENGTH: 150 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 2806 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
 ANCHOR LENGTH: 23 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 1/2" BLOW
 DECREASING THROUGHOUT. FINAL FLOW
 PERIOD WEAK DECREASING TO ONLY A
 SURFACE BLOW.

RECOVERED: 30 FT OF: SLIGHTLY OIL SPECKED MUD; 4% OIL.
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS: SLID TOOL 3' TO BOTTOM BEFORE OPENING.

TIME SET PACKER(S): 9:00 P.M.

TIME STARTED OFF BOTTOM: 11:30 P.M.

WELL TEMPERATURE: 94 °F

INITIAL HYDROSTATIC PRESSURE:

INITIAL FLOW PERIOD MIN: 30

INITIAL CLOSED IN PERIOD MIN: 30

FINAL FLOW PERIOD MIN: 45

FINAL CLOSED IN PERIOD MIN: 48

FINAL HYDROSTATIC PRESSURE

(A) 1593 PSI
 (B) 34 PSI TO (C) 42 PSI
 (D) 95 PSI
 (E) 51 PSI TO (F) 53 PSI
 (G) 126 PSI
 (H) 1522 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

7618

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

Elevation 1829 KB Formation LKC Eff. Pay 1 Ft.

District Street Bend Date 2/10/85 Customer Order No.

COMPANY NAME Rains & Williamson Oil Co.

ADDRESS 435 Page Court 300 W. Douglas Wichita, ks

LEASE AND WELL NO. Rankin #6 COUNTY Russell STATE Ks Sec. 32 Twp. 13 Rge. 12W

Mail Invoice To Same as above No. Copies Requested 5

Co. Name Address #6 RANKIN No. Copies Requested 5

Mail Charts To Address

Formation Test No. 14 Interval Tested From 3006 ft. to 3016 ft. Total Depth 3016 ft.

Packer Depth 3001 ft. Size 6 5/8 in. Packer Depth 3016 ft. Size 6 5/8 in.

Packer Depth 3006 ft. Size 6 5/8 in. Packer Depth 3016 ft. Size 6 5/8 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3008 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 3011 ft. Recorder Number 11028 Cap. 4300

Below Saddle Recorder Depth Recorder Number Cap.

Drilling Contractor CO Tools Rig #9 Drill Collar Length 91 I. D. 2.2 in.

Mud Type Starch Viscosity 38 Weight Pipe Length 2896 2894 I. D. 3.8 in.

Weight 44.00 129.6 Water Loss 12.8 cc. Drill Pipe Length 21 ft. Tool Size 5/2 00 in.

Chlorides 44,000 P.P.M. Test Tool Length 10 ft. Size 5/2 00 in.

Jars: Make Serial Number Anchor Length 10 ft. Bottom Choke Size 3/4 in.

Did Well Flow? Reversed Out Surface Choke Size 3/4 in. Main Hole Size 7/8 in. Tool Joint Size 4 1/2 XH in.

Flow: Weak; slightly increasing to 1 3/4" at end of period

FFP: Weak 3/4" flow during period

Recovered 80' ft. of (Thin) waxy mud / had a few oil speck in top of pool

Recovered 342 water, 66 mud

Recovered 73,000 P.P.M. Sample Jars used 2 Remarks:

Time On Location 8:45 A.M. Time Pick Up Tool 9:45 A.M. Time Off Location 4:10 A.M.

Time Set Packer(s) 11:15 P.M. Time Started Off Bottom 2:45 1:45 A.M. Maximum Temperature Broken

Initial Hydrostatic Pressure (A) 1586 P.S.I.

Initial Flow Period Minutes 30 (B) 37 P.S.I. to (C) 50 P.S.I.

Initial Close Period Minutes 30 (D) 487 P.S.I.

Final Flow Period Minutes 45 (E) 62 P.S.I. to (F) 62 P.S.I.

Final Close Period Minutes 45 (G) 487 P.S.I.

Final Hydrostatic Pressure (H) 1586 P.S.I.

RECEIVED FEB 13 1985

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. 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 Stephen M. Kreidler Signature of Customer or his authorized representative Western Representative Gene Cherhart 0500

WESTERN TESTING CO., INC.
Pressure Data

Date: 2/10/85 Test Ticket No. 7618
 Recorder No. 6079 Capacity _____ Location _____
 Clock No. _____ Elevation _____ Well Temperature _____

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	1557 P.S.I.			
B First Initial Flow Pressure	27 P.S.I.	First Flow Pressure	30 Mins.	
C First Final Flow Pressure	39 P.S.I.	Initial Closed-in Pressure	30 Mins.	
D Initial Closed-in Pressure	475 P.S.I.	Second Flow Pressure	45 Mins.	
E Second Initial Flow Pressure	48 P.S.I.	Final Closed-in Pressure	45 Mins.	
F Second Final Flow Pressure	58 P.S.I.			
G Final Closed-in Pressure	474 P.S.I.			
H Final Hydrostatic Mud	1504 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.

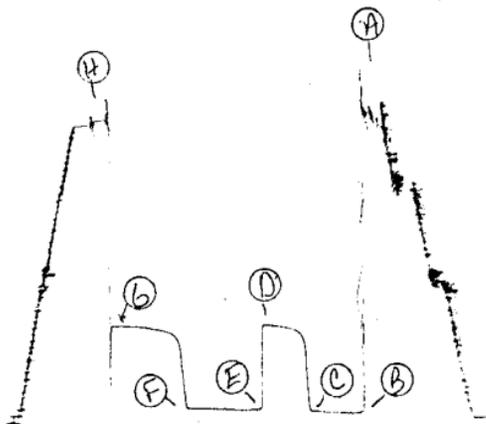
Second Flow Pressure
 Breakdown: 10 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 110 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	27	0	39	0	48	0	58
P 2 5	1	3	363	5		3	291
P 3 10	27	6	430	10	1	6	411
P 4 15	28	9	445	15	48	9	434
P 5 20	31	12	453	20	50	12	443
P 6 25	32	15	460	25	53	15	450
P 7 30	39	18	463	30	55	18	454
P 8 35		21	467	35	56	21	458
P 9 40		24	470	40	58	24	462
P10 45		27	473	45	58	27	466
P11 50		30	475	50		30	468
P12 55		33		55		33	470
P13 60		36		60		36	471
P14 65		39		65		39	472
P15 70		42		70		42	473
P16 75		45		75		45	474
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

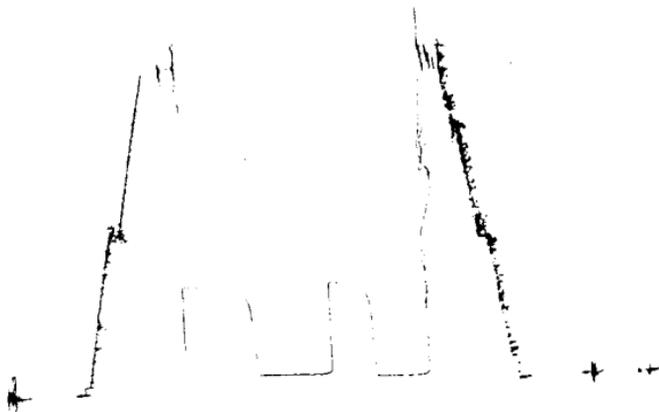
6077 .

TKT # 7618
I



11028 .

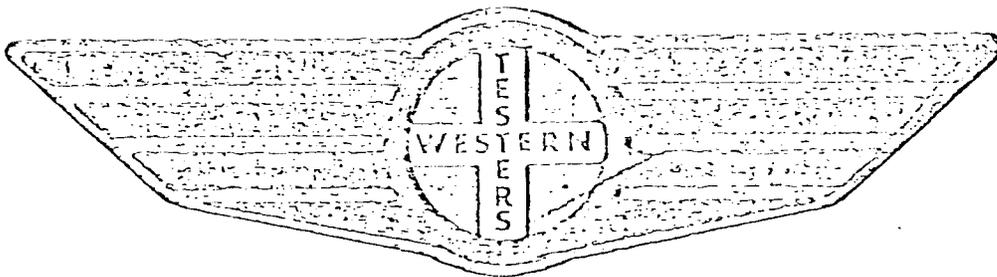
TKT II 7618
①



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RAINS & WILLIAMSON OIL CO Increase and Well No. #6 RANKIN Sec. 32 Twp. 13S Rge. 12W Test No. 3 Date 2/10/8

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/10/85 TICKET #7618
 CUSTOMER: RAINS & WILLIAMSON OIL CO INC LEASE: RANKIN
 WELL: 6 TEST: 3 GEOLOGIST: KNEIDLER
 ELEVATION (KB): 1829 FORMATION: LOWER KANSAS CITY
 SECTION: 32 TOWNSHIP: 13S
 RANGE: 12W COUNTY: RUSSELL STATE: KANSAS
 GAUGE SN #6077 RANGE: 4700 CLOCK: 12

INTERVAL TEST FROM: 3006 FT TO: 3016 FT TOTAL DEPTH: 3016 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 3001 FT SIZE: 6 5/8 IN PACKER DEPTH: 3006 FT SIZE: 6 5/8 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: CO TOOLS
 MUD TYPE: STARCH VISCOSITY: 38
 WEIGHT: 9.6 WATER LOSS (CC): 12.8
 CHLORIDES (P.P.M.): 44000
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? REVERSED OUT?
 DRILL COLLAR LENGTH: 91 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 2894 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
 ANCHOR LENGTH: 10 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 BLOW SLIGHTLY
 INCREASING TO 1 3/4" AT END OF TEST.
 FINAL FLOW PERIOD WEAK 3/8" BLOW THROUGHOUT.

RECOVERED: 80 FT OF: THIN WATERY MUD WITH FEW OIL SPECKS IN TOOL.
 RECOVERED: FT OF: 34% WTR; 66% MUD. CHLORIDES 73000 P.P.M.
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 11:15 P.M. TIME STARTED OFF BOTTOM: 1:45 A.M.
 WELL TEMPERATURE: 0 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 1557 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 27 PSI TO (C) 39 PSI
 INITIAL CLOSED IN PERIOD MIN: 30 (D) 475 PSI
 FINAL FLOW PERIOD MIN: 45 (E) 48 PSI TO (F) 58 PSI
 FINAL CLOSED IN PERIOD MIN: 45 (G) 474 PSI
 FINAL HYDROSTATIC PRESSURE (H) 1504 PSI

