



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No.

7106

P. O. BOX 1599

PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 2579 G.L.

Formation H.C.

Eff. Pay Ft.

District Wakeeney Date 2-25-85 Customer Order No. _____
COMPANY NAME Rains & Williamson Oil Co. INC.
ADDRESS 435 Page Court, 220 West Douglas Wichita Ks. 67202
LEASE AND WELL NO. Ziegler "A" #1 COUNTY Sheridan STATE Ks. Sec. 3 Twp. 10S Rge. 26W
Mail Invoice To #1 'A' ZIEGLER same Address _____ No. Copies Requested 5
Co. Name _____ Address _____ No. Copies Requested 5
Mail Charts To _____ Address _____ No. Copies Requested 5

Formation Test No. 1 Interval Tested From 3845 ft. to 3890 ft. Total Depth 3890 ft.
Packer Depth 3840 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3845 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3866 ft. Recorder Number 4376 Cap. 4000
Bottom Recorder Depth (Outside) 3869 ft. Recorder Number 6234 Cap. 4500
Below Saddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
Drilling Contractor R & W #11 Drill Collar Length _____ I. D. _____ in.
Mud Type chem Viscosity 38 Weight Pipe Length _____ I. D. _____ in.
Weight 9.3 Water Loss 6.4 cc. Drill Pipe Length 3823 I. D. 3.6 in.
Chlorides 4,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.
Jars: Make _____ Serial Number _____ Anchor Length 45 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.H. in.

Blow I.F.P. Weak Building to 2" IN Bucket
F.F.P. Very Weak Building to 1 Inch IN Bucket

Recovered 20 ft. of muddy water 20% water
Recovered 45 ft. of mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Chlorides 2,400 P.P.M. Sample Jars used 2 Remarks: _____

RECEIVED
FEB 28 1985

Time On Location 1:00 A.M. Time Pick Up Tool 3:00 P.M. Time Off Location 10:00 A.M.
Time Set Packer(s) 5:00 A.M. Time Started Off Bottom 7:30 P.M. Maximum Temperature 114°
Initial Hydrostatic Pressure _____ (A) 1951 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 40 P.S.I. to (C) 50 P.S.I.
Initial Closed In Period _____ Minutes 30 (D) 1123 P.S.I.
Final Flow Period _____ Minutes 60 (E) 50 P.S.I. to (F) 60 P.S.I.
Final Closed In Period _____ Minutes 30 (G) 1062 P.S.I.
Final Hydrostatic Pressure _____ (H) 1921 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

HAGEMEIER

1135

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ 65.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 615.00

WESTERN TESTING CO., INC.

Pressure Data

Date 2-25

Test Ticket No. 7106

Recorder No. 4376

Capacity _____ Location _____

Clock No. _____ Elevation _____ Well Temperature _____

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1951</u> P.S.I.			
B First Initial Flow Pressure	<u>45</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Min.
C First Final Flow Pressure	<u>48</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Min.
D Initial Closed-in Pressure	<u>1105</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Min.
E Second Initial Flow Pressure	<u>56</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Min.
F Second Final Flow Pressure	<u>69</u> P.S.I.			
G Final Closed-in Pressure	<u>1055</u> P.S.I.			
H Final Hydrostatic Mud	<u>1927</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: 12 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.

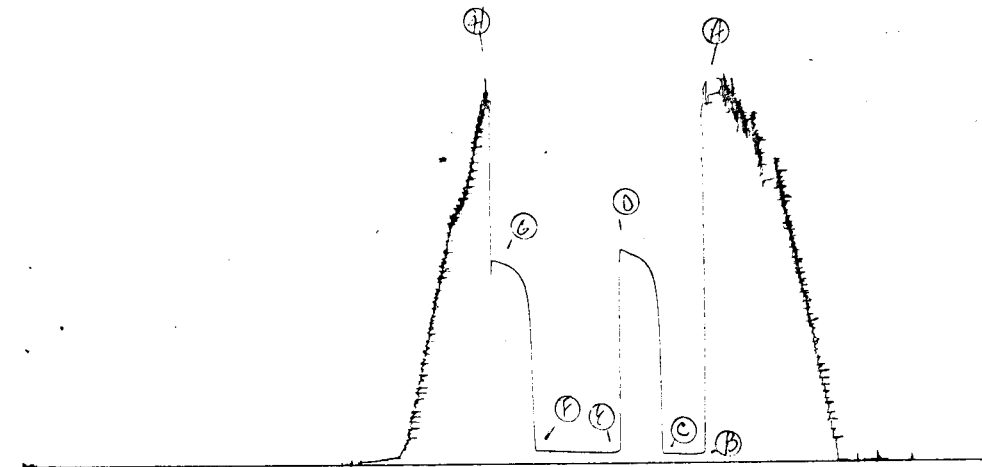
Final Shut-In
Breakdown: 12 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>45</u>	0	<u>48</u>	0	<u>56</u>	0	<u>69</u>
P 2 5	<u>45</u>	3	<u>603</u>	5	<u>6</u>	3	<u>417</u>
P 3 10	<u>46</u>	6	<u>873</u>	10	<u>5</u>	6	<u>810</u>
P 4 15	<u>46</u>	9	<u>964</u>	15	<u>56</u>	9	<u>925</u>
P 5 20	<u>47</u>	12	<u>1008</u>	20	<u>57</u>	12	<u>966</u>
P 6 25	<u>47</u>	15	<u>1038</u>	25	<u>58</u>	15	<u>994</u>
P 7 30	<u>48</u>	18	<u>1056</u>	30	<u>59</u>	18	<u>1012</u>
P 8 35		21	<u>1069</u>	35	<u>60</u>	21	<u>1025</u>
P 9 40		24	<u>1079</u>	40	<u>62</u>	24	<u>1035</u>
P10 45		27	<u>1088</u>	45	<u>64</u>	27	<u>1045</u>
P11 50		30	<u>1097</u>	50	<u>66</u>	30	<u>1056</u>
P12 55		33	<u>1105</u>	55	<u>68</u>	33	<u>1055</u>
P13 60		36		60	<u>69</u>	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	

7016
DST1

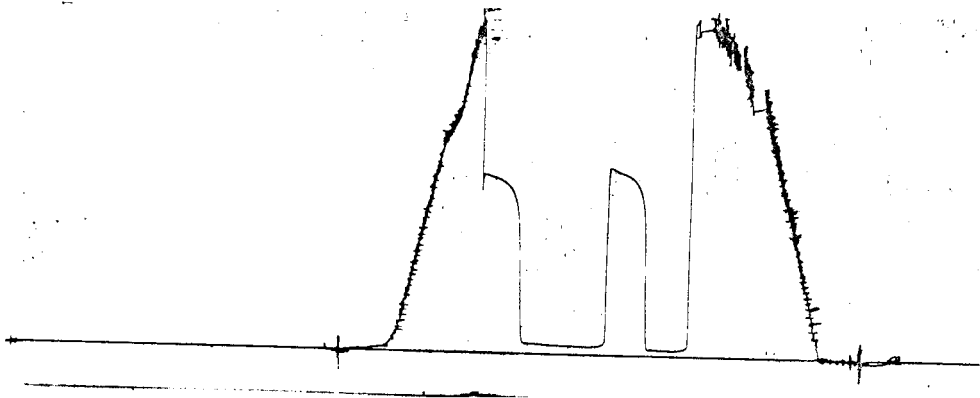
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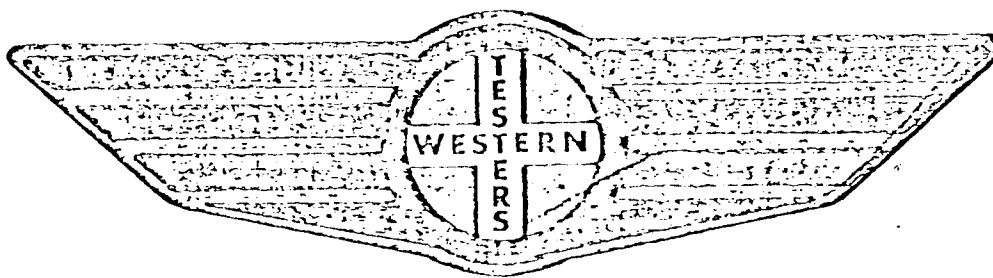
JP # 7106
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RAINS & WILLIAMSON OIL CO. Lease and Well No. #1 "A" ZIEGLER Sec. 3 Twp. 10s Rge. 26w Test No. 1 Date 2/25/8
INC.

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/25/85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 1 TEST: 1
ELEVATION (KB): 2584 FORMATION: KANSAS CITY
SECTION: 3 TOWNSHIP: 10S
RANGE: 26W COUNTY: SHERIDAN STATE: KS
GAUGE SN #4376 RANGE: 4000 CLOCK: 12

TICKET #7106

LEASE: ZIEGLER "A"

GEOLOGIST: HAGEMER

INTERVAL TEST FROM: 3845 FT TO: 3890 FT TOTAL DEPTH: 3890 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3840 FT SIZE: 6 3/4 IN PACKER DEPTH: 3845 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: CHEMICAL VISCOSITY: 38
WEIGHT: 9.3 WATER LOSS (CC): 6.4
CHLORIDES (P.P.M.): 4000

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:	3823 FT	I.D.:	3.6 IN
TEST TOOL LENGTH:	22 FT	TOOL SIZE:	5 1/2 IN
ANCHOR LENGTH:	45 FT	SIZE:	5 1/2 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 BUILDING TO 2"
IN BUCKET.
FINAL FLOW PERIOD VERY WEAK BLOW BUILDING TO
1" IN BUCKET.

RECOVERED:	20	FT	OF:	MUDDY WATER (20% WATER; 80% MUD)
RECOVERED:	45	FT	OF:	MUD
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	
RECOVERED:		FT	OF:	

REMARKS: CHLORIDES 21000 P.P.M.

TIME SET PACKER(S): 5:00 AM
WELL TEMPERATURE: 114 °F

TIME STARTED OFF BOTTOM: 7:30 AM

INITIAL HYDROSTATIC PRESSURE:		(A) 1951	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 45	PSI TO (C) 48	PSI
INITIAL CLOSED IN PERIOD	MIN: 33	(D) 1105	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 56	PSI TO (F) 69	PSI
FINAL CLOSED IN PERIOD	MIN: 33	(G) 1055	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1927	PSI	



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº

7107

P. O. BOX 1599

PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 2579 G.L.

Formation K.C.

Eff. Pay _____ Ft.

District 14

Date 2-25-85

Customer Order No. _____

RO25

COMPANY NAME Rains & Williams oil Co. INC.

ADDRESS 435 Page Court 220 West Douglas Wichita Ks.

67202

LEASE AND WELL NO Ziegler "A" #1 COUNTY Sheridan STATE Ks

Sec. 3 Twp 10 S Rge 24 W

Mail Invoice To #1 'A' ZIEGLER same

No. Copies Requested 5

Co. Name

Address

Mail Charts To

same
Address

No. Copies Requested 5

Formation Test No. 2 Interval Tested From 3968 ft. to 3998 ft. Total Depth 3998 ft.
Packer Depth 3963 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3968 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3984 ft.
Bottom Recorder Depth (Outside) 3987 ft.
Below Saddle Recorder Depth _____ ft.

Recorder Number 4376 Cap. 4000
Recorder Number 6234 Cap. 4500
Recorder Number _____ Cap. _____

Drilling Contractor R&W #11
Mud Type chem Viscosity 47
Weight 9.4 Water Loss 6.4 cc.
Chlorides 4,000 P.P.M.
Jars: Make _____ Serial Number _____
Did Well Flow? - Reversed Out -

Drill Collar Length _____ I. D. _____ in.
Weight Pipe Length _____ I. D. _____ in.
Drill Pipe Length 3946 I. D. 3.6 in.
Test Tool Length 22 ft. Tool Size 5 1/2 in.
Anchor Length 30 ft. Size 5 1/2 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 I.F.P. weak Building to 3" IN Bucket
E.F.P. Very " " 1 1/2" " Bucket

Recovered 40 ft. of muddy water with a skum of oil 50% water 50% mud
Recovered 60 ft. of muddy water sl. trace of oil
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Chlorides 40,000 P.P.M. Sample Jars used 2 Remarks: _____

RECEIVED
FEB 28 1985

Time On Location 10:00 A.M. Time Pick Up Tool 12:00 P.M. Time Off Location 7:00 P.M.
Time Set Packer(s) 2:05 A.M. Time Started Off Bottom 4:35 P.M. Maximum Temperature 115°
Initial Hydrostatic Pressure _____ (A) 2032 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 30 P.S.I. to (C) 50 P.S.I.
Initial Closed In Period _____ Minutes 30 (D) 233 P.S.I.
Final Flow Period _____ Minutes 60 (E) 50 P.S.I. to (F) 71 P.S.I.
Final Closed In Period _____ Minutes 30 (G) 223 P.S.I.
Final Hydrostatic Pressure _____ (H) 2002 P.S.I.

COMPANY TERMS

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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

Kent Kettle
thank you

HAGEMIER

1135

FIELD INVOICE

Open Hole Test \$ 1550.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ 165.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 615.00

WESTERN TESTING CO., INC.

Pressure Data

Date 2-25

Test Ticket No. 7107

Recorder No. 4376

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2032</u> P.S.I.		
B First Initial Flow Pressure	<u>41</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>47</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>230</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>55</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>71</u> P.S.I.		
G Final Closed-in Pressure	<u>224</u> P.S.I.		
H Final Hydrostatic Mud	<u>2002</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.

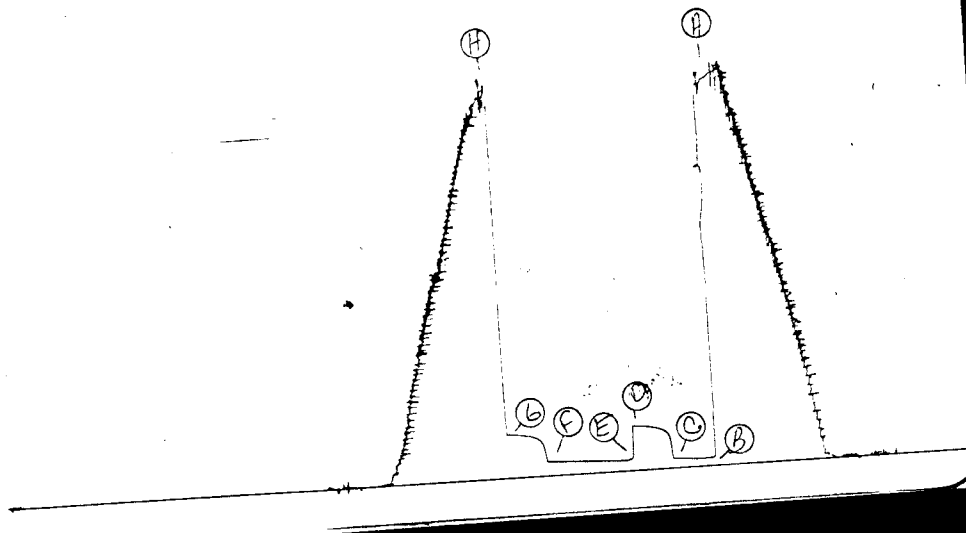
Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

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>41</u>	0	<u>47</u>	0	<u>55</u>	0	<u>71</u>
P 2 5	<u>5</u>	3	<u>159</u>	5	<u>5</u>	3	<u>161</u>
P 3 10	<u>5</u>	6	<u>191</u>	10	<u>5</u>	6	<u>187</u>
P 4 15	<u>41</u>	9	<u>203</u>	15	<u>55</u>	9	<u>201</u>
P 5 20	<u>43</u>	12	<u>210</u>	20	<u>57</u>	12	<u>208</u>
P 6 25	<u>45</u>	15	<u>217</u>	25	<u>59</u>	15	<u>213</u>
P 7 30	<u>47</u>	18	<u>223</u>	30	<u>61</u>	18	<u>216</u>
P 8 35		21	<u>226</u>	35	<u>63</u>	21	<u>218</u>
P 9 40		24	<u>228</u>	40	<u>65</u>	24	<u>220</u>
P 10 45		27	<u>229</u>	45	<u>67</u>	27	<u>222</u>
P 11 50		30	<u>230</u>	50	<u>69</u>	30	<u>224</u>
P 12 55		33		55	<u>70</u>	33	
P 13 60		36		60	<u>71</u>	36	
P 14 65		39		65		39	
P 15 70		42		70		42	
P 16 75		45		75		45	
P 17 80		48		80		48	
P 18 85		51		85		51	
P 19 90		54		90		54	
P 20 95		57		95		57	
100		60		100		60	

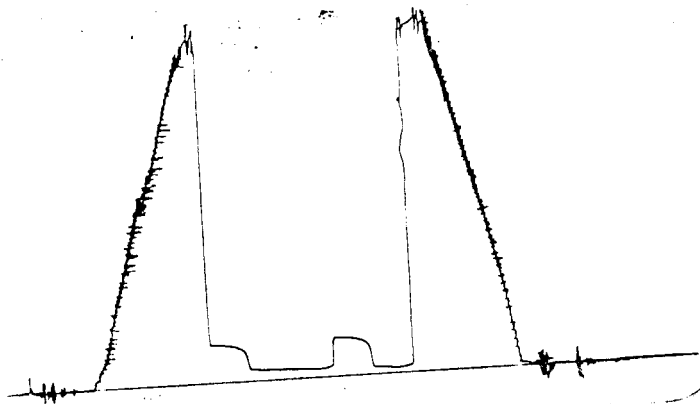
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DST2

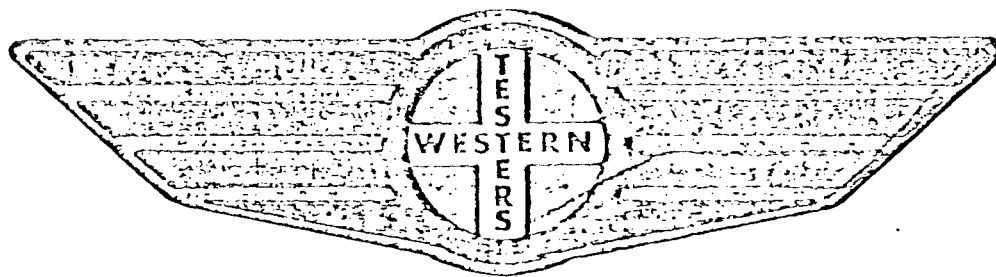
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/25/85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 1 TEST: 2
ELEVATION (KB): 2584 FORMATION: KANSAS CITY
SECTION: 3 TOWNSHIP: 10S
RANGE: 26W COUNTY: SHERIDAN STATE: KS
GAUGE SN #4376 RANGE: 4000 CLOCK: 12

INTERVAL TEST FROM: 3968 FT TO: 3998 FT TOTAL DEPTH: 3998 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3963 FT SIZE: 6 3/4 IN PACKER DEPTH: 3908 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: CHEMICAL VISCOSITY: 47
WEIGHT: 9.4 WATER LOSS (CC): 6.4
CHLORIDES (P.P.M.): 4000

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: 3946 FT I.D.: 3.6 IN
TEST TOOL LENGTH: 22 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 30 FT SIZE: 5 1/2 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 BUILDING TO 3" IN
BUCKET.
FINAL FLOW PERIOD WEAK BLOW BUILDING TO 1 1/2"
IN BUCKET.

RECOVERED: 40 FT OF: MUDDY WATER WITH A SCUM OF OIL
RECOVERED: FT OF: (50% WATER; 50% MUD)
RECOVERED: 60 FT OF: MUDDY WATER WITH SLIGHT TRACE OF OIL
RECOVERED: FT OF: (50% WATER; 50% MUD)
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: CHLORIDES 40000 P.P.M.

TIME SET PACKER(S): 2:05 AM
WELL TEMPERATURE: 115 °F

TIME STARTED OFF BOTTOM: 4:35 AM

INITIAL HYDROSTATIC PRESSURE: (A) 2032 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 41 PSI TO (C) 47 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 230 PSI
FINAL FLOW PERIOD MIN: 60 (E) 55 PSI TO (F) 71 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 224 PSI
FINAL HYDROSTATIC PRESSURE (H) 2002 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 7108

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

WICHITA, KANSAS 67201

Elevation 2579 G.L. Formation K.C. Eff. Pay Ft.

R025

District Wakeeney Date 2-26-85 Customer Order No.

COMPANY NAME Rains & Williamson Oil Co. INC.

ADDRESS 435 Page Court 220 West Douglas Wichita Ks 67202

LEASE AND WELL NO. Ziegler "A" #1 COUNTY Sheridan STATE Ks. Sec. 3 Twp. 10 S Rge. 26 W

Mail Invoice To #1 'A' ZIEGLER same No. Copies Requested 5

Co. Name Address No. Copies Requested 5

Mail Charts To same Address No. Copies Requested 5

Formation Test No. 3 Interval Tested From 4000 ft. to 4040 ft. Total Depth 4040 ft.

Packer Depth 3985 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4000 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4021 ft. Recorder Number 4376 Cap. 4000

Bottom Recorder Depth (Outside) 4024 ft. Recorder Number 6234 Cap. 4500

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor RAW #11 Drill Collar Length I. D. in.

Mud Type chem Viscosity 43 Weight Pipe Length I. D. in.

Weight 9.4 Water Loss 6.4 cc. Drill Pipe Length 3978 I. D. 3.6 in.

Chlorides 6,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 40 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 KH. in.

Blow: I.F.P. Weak Building to 1 inch IP Bucket

F.F.P. No Blow. Flushed tool.

Recovered 20 ft. of SL. oil cut mud 29 oil 98% mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks: Flashed tool F.F.P.

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

Time Set Packer(s) 5:35 A.M. Time Started Off Bottom 7:30 P.M. Maximum Temperature 1150

Initial Hydrostatic Pressure (A) 2082 P.S.I.

Initial Flow (B) 40 P.S.I. to (C) 40 P.S.I.

Initial Close (D) 60 P.S.I.

Final Flow (E) 40 P.S.I. to (F) 50 P.S.I.

Final Close (G) 60 P.S.I.

Final Hydrostatic Pressure (H) 2052 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 Hagemeyer Signature of Customer or his authorized representative

Western Representative Kurt Kefka 1135

FIELD INVOICE

Open Hole Test \$ 595.00
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$ 65.00
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$ 660.00

WESTERN TESTING CO., INC.

Pressure Data

Date 2-26

Test Ticket No. 7108

Recorder No. 4376

Capacity

Location

Clock No.

Elevation

Well Temperature

Point

Pressure

Time
Given

Time
Computed

A Initial Hydrostatic Mud 2082 P.S.I.
B First Initial Flow Pressure 47 P.S.I.
C First Final Flow Pressure 47 P.S.I.
D Initial Closed-in Pressure 50 P.S.I.
E Second Initial Flow Pressure 46 P.S.I.
F Second Final Flow Pressure 54 P.S.I.
G Final Closed-in Pressure 60 P.S.I.
H Final Hydrostatic Mud 2052 P.S.I.

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

30 Mins. 30 Min
30 Mins. 33 Min
25 Mins. 25 Min
30 Mins. 30 Min

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 7 Inc.

of 5 mins. and a

final inc. of 0 Min.

Initial Shut-In

Breakdown: 12 Inc.

of 3 mins. and a

final inc. of 0 Min.

Second Flow Pressure

Breakdown: 6 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>47</u>	0	<u>47</u>	0	<u>46</u>	0	<u>54</u>
P 2 5	<u> </u>	3	<u>47</u>	5	<u>46</u>	3	<u>54</u>
P 3 10	<u> </u>	6	<u>47</u>	10	<u>46</u>	6	<u>55</u>
P 4 15	<u> </u>	9	<u>48</u>	15	<u>55</u> F.T.	9	<u>55</u>
P 5 20	<u> </u>	12	<u>48</u>	20	<u>54</u>	12	<u>56</u>
P 6 25	<u> </u>	15	<u>48</u>	25	<u>54</u>	15	<u>57</u>
P 7 30	<u>47</u>	18	<u>49</u>	30		18	<u>58</u>
P 8 35		21	<u>49</u>	35		21	<u>59</u>
P 9 40		24	<u>49</u>	40		24	<u>59</u>
P10 45		27	<u>50</u>	45		27	<u>60</u>
P11 50		30	<u>50</u>	50		30	<u>60</u>
P12 55		33	<u>50</u>	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	