



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No.

2824

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

WICHITA, KANSAS 67201

Elevation 1199GL-1207KB Formation Miss Eff. Pay Ft.

District Great Bend Date 4-14-84 Customer Order No.

COMPANY NAME Rains & W. Williamson Oil Co. Inc.

ADDRESS 435 Page Court 220 W. Douglas Wichita, KS 67202

LEASE AND WELL NO. Hunt-1 COUNTY Sumner STATE KS Sec. 2 Twp. 31S Rge. 1E

Mail Invoice To Same as above #1 HUNT No. Copies Requested 5

Co. Name Address

Mail Charts To Address No. Copies Requested 5

Formation Test No. 2 Interval Tested From 3352 ft. to 3369 ft. Total Depth 3369 ft.

Packer Depth 3347 ft. Size 6 7/8 in. Packer Depth ft. Size in.

Packer Depth 3352 ft. Size 6 7/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) ft. Recorder Number 6007 Cap. 4700

Bottom Recorder Depth (Outside) ft. Recorder Number 5673 Cap. 5400

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Co Tools Rig 3 Drill Collar Length 518 I. D. 2 1/2 in.

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

Weight 9.5 Water Loss 12.2 cc. Drill Pipe Length 2812 I. D. 3.8 in.

Chlorides 40000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.

Jars: Make Serial Number Anchor Length 17 ft. Size 5 1/2 OD in.

Did Well Flow? Reversed Out Surface Choke Size 7/8 in. Bottom Choke Size 3/4 in.

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

Blow: 3 1/2" blow during opening

Recovered 240' ft. of Slightly oil cut gassy mud - 11% oil, 14% gas, 75% mud

Recovered 180' ft. of Very slightly oil cut gassy mud - 4% oil, 30% gas, 66% mud

Recovered 420' ft. of Slightly gas cut mud 8% gas, 92% mud, 5% oil

Recovered 940' ft. of

Chlorides 44000 P.P.M. Sample Jars used Remarks: Lost packer seat during 2nd opening

Time On Location 1130 A.M. Time Pick Up Tool 400 A.M. Time Off Location A.M.

Time Set Packer(s) 730 A.M. Time Started Off Bottom 8:50 A.M. Maximum Temperature 104 P.M.

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

Initial Flow Period 30 Minutes (B) 217 P.S.I. to (C) 227 P.S.I.

Initial Closed In Period 30 Minutes (D) 1221 P.S.I.

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

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

Final Hydrostatic Pressure (H) 1660 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 4/14/84

Western Representative Don Eberhart

FIELD INVOICE

Open Hole Test \$ 400.00
Misrun
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$ 50.00
Telecopier \$
TOTAL \$ 450.00

WESTERN TESTING CO., INC.

Pressure Data

Date: 4-14-84 Test Ticket No. 2824
 Recorder No. 6077 Capacity 4700 Location _____ Ft. _____
 Clock No. _____ Elevation 1207 Well Temperature 104 °F
 Point _____ Pressure _____ Time Given _____ Time Computed _____
 A Initial Hydrostatic Mud 1634 P.S.I. Open Tool 7:30 P
 B First Initial Flow Pressure 238 P.S.I. First Flow Pressure 30 Mins. 35 Mins.
 C First Final Flow Pressure 251 P.S.I. Initial Closed-in Pressure 30 Mins. 18 Mins.
 D Initial Closed-in Pressure 1314 P.S.I. Second Flow Pressure _____ Mins. _____ Mins.
 E Second Initial Flow Pressure _____ P.S.I. Final Closed-in Pressure _____ Mins. _____ Mins.
 F Second Final Flow Pressure _____ P.S.I.
 G Final Closed-in Pressure _____ P.S.I.
 H Final Hydrostatic Mud 1612 P.S.I.

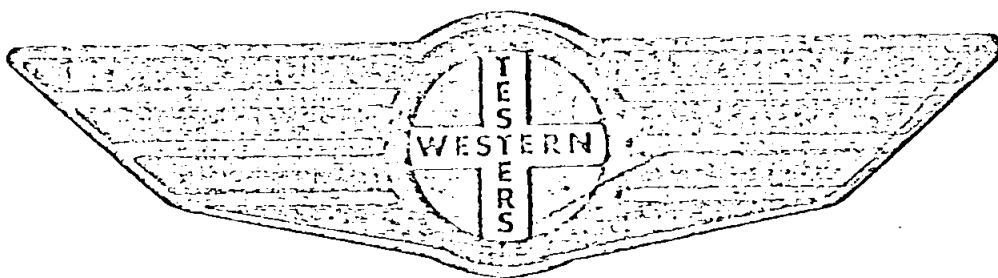
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>7</u> 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>238</u>	0	<u>251</u>	0		0	
P 2 5	<u>238</u>	3	<u>251</u>	5		3	
P 3 10	<u>240</u>	6	<u>482</u>	10		6	
P 4 15	<u>244</u>	9	<u>772</u>	15		9	
P 5 20	<u>248</u>	12	<u>1157</u>	20		12	
P 6 25	<u>251</u>	15	<u>1280</u>	25		15	
P 7 30		18	<u>1314</u>	30		18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P 10 45		27		45		27	
P 11 50		30		50		30	
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

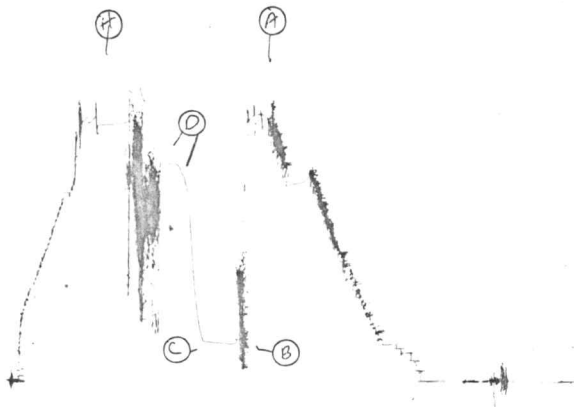
P.O. Box 1599

Phone (316) 262-5861

DST-2

2824

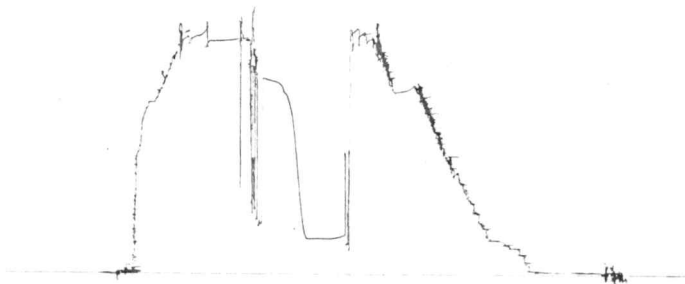
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6077

DST-2

tlc# 2824
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5673

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-14-84
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: #1 TEST: 2
ELEVATION (KB): 1207 FORMATION: MISSISSIPPI
SECTION: 2 TOWNSHIP: 31S
RANGE: 1E COUNTY: SUMNER STATE: KANSAS
WELL SN #6077 RANGE: 4700 CLOCK: 12

TICKET #2824
LEASE: HUNT
GEOLOGIST: D. CALLEWAERT

INTERVAL TEST FROM: 3352 FT TO: 3369 FT TOTAL DEPTH: 3369 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3347 FT SIZE: 6 5/8 IN PACKER DEPTH: 3352 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: COMPANY TOOLS RIG 3
MUD TYPE: CHEMICAL VISCOSITY: 42
DENSITY: 9.5 WATER LOSS (CC): 12.2
CHLORIDES (P.P.M.): 40000
MUDS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?

DRILL COLLAR LENGTH: 519 FT I.D.: 2.2 IN
DRILL PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2812 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5.5 OD IN
ANCHOR LENGTH: 17 FT SIZE: 5.5 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
WELL HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4.5 XH IN

FLOW: INITIAL FLOW PERIOD; 3 1/2" BLOW.

RECOVERED: 240 FT OF: SLIGHTLY OIL CUT GASSY MUD 11% OIL 14% GAS 75%
RECOVERED: 180 FT OF: VERY SLIGHTLY OIL CUT GASSY MUD
RECOVERED: FT OF: 4% OIL 30% GAS 66% MUD
RECOVERED: 420 FT OF: SLIGHTLY GAS CUT MUD 8% GAS 92% MUD SHOW OF OIL
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: CHLORIDES: 44000
LOST PACKER SEAT DURING THE SECOND FLOW.

TIME SET PACKER(S): 7:30 PM TIME STARTED OFF BOTTOM: 8:50 PM
WELL TEMPERATURE: 104 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1636 PSI
INITIAL FLOW PERIOD MIN: 25 (B) 238 PSI TO (C) 251 PSI
INITIAL CLOSED IN PERIOD MIN: 18 (D) 1314 PSI
INITIAL FLOW PERIOD MIN: 0 (E) 0 PSI TO (F) 0 PSI
INITIAL CLOSED IN PERIOD MIN: 0 (G) 0 PSI
INITIAL HYDROSTATIC PRESSURE (H) 1612 PSI

PRESSURE DATA

GAUGE SN #6077 RANGE: 4700 CLOCK: 12

OPEN TOOL: 7:30 PM

FINAL CLOSED-IN PRESSURE: 0 MIN 0 MIN

PRESSURE BREAKDOWN

30



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No.

2825

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

WICHITA, KANSAS 67201

Elevation

119964/207KB

Formation

Miss

Eff. Pay Ft.

8025
COMPANY NAME Rams & Williamson Oil Co. Inc.
ADDRESS 435 Page Court 220 W. Douglas Wichita, KS 67202
LEASE AND WELL NO. Hunt #1 COUNTY Sumner STATE KS Sec 2 Twp 31S Rge 1E
Mail Invoice To Same as above No. Copies Requested 5
Co. Name " " " " Address " " " " #1 HUNT
Mail Charts To " " " " " " " " " " No. Copies Requested 5

Formation Test No. III Interval Tested From 3358 ft. to 3369 ft. Total Depth 3369 ft.
Packer Depth 3353 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Packer Depth 3358 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —
Top Recorder Depth (Inside) 3361 ft. Recorder Number 6077 Cap. 4700
Bottom Recorder Depth (Outside) 3364 ft. Recorder Number 5673 Cap. 5400
Below Saddle Recorder Depth — ft. Recorder Number — Cap. —
Drilling Contractor Co. Tools by 342 Drill Collar Length 59 I. D. 2.2 in.
Mud Type Chemical Viscosity 42 Weight Pipe Length — I. D. — in.
Weight 9.3 Water Loss 12.2 cc. Drill Pipe Length 2818 I. D. 3.8 in.
Chlorides 14000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
Jars: Make — Serial Number — Anchor Length 11 ft. Size 5 1/2 OD in.
Did Well Flow? — Reversed Out — Surface Choke Size 3 1/4 in. Bottom Choke Size 3 1/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 1 1/4 in.

Blow: fair, increased to bottom of 5' of bucket in 24 min of JFP
off bottom of bucket during JFP
Recovered 150 ft. of 532 Gm 292 oil 182 mud
Recovered 60 ft. of 522 Gm 183 oil 302 "
Recovered 120 ft. of 652 " 179 " 182 "
Recovered 60 ft. of 452 " 252 oil 302 "
Recovered — ft. of —
Chlorides — P.P.M. Sample Jars used 4 Remarks: 290' TOTAL Rec. Some free oil in top of Tool (Gravity 40)

Time On Location 1:30 4-13-84 A.M. Time Pick Up Tool 7:00 A.M.
Time Set Packer(s) 8:45 A.M. Time Started Off Bottom 11:45 A.M.
Initial Hydrostatic Pressure — (A) 1658 P.S.I.
Initial Flow Period 30 Minutes (B) 62 P.S.I. to (C) 75 P.S.I.
Initial Closed In Period 30 Minutes (D) 1236 P.S.I.
Final Flow Period 60 Minutes (E) 100 P.S.I. to (F) 112 P.S.I.
Final Closed In Period 60 Minutes (G) 1260 P.S.I.
Final Hydrostatic Pressure — (H) 1646 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] 4/14/84
Signature of Customer or his authorized representative

Western Representative Dene Elbert

0500

FIELD INVOICE

Open Hole Test \$ 550.00
Mistrun \$ —
Straddle Test \$ —
Jars \$ —
Selective Zone \$ —
Safety Joint \$ —
Standby \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. \$ —
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —
Insurance \$ 50.00
Telecopier \$ —
TOTAL \$ 600.00

WESTERN TESTING CO., INC.

Pressure Data

Date: 4-14-84 Test Ticket No. 2825
 Recorder No. 6077 Capacity 4700 Location 3361 Ft.
 Clock No. --- Elevation 1207 KB Well Temperature 104 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1641 P.S.I. Open Tool 8:45 A_M
 B First Initial Flow Pressure 46 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 64 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 D Initial Closed-in Pressure 1337 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 82 P.S.I. Final Closed-in Pressure 60 Mins. 40 Mins.
 F Second Final Flow Pressure 113 P.S.I.
 G Final Closed-in Pressure 1371 P.S.I.
 H Final Hydrostatic Mud 1595 P.S.I.

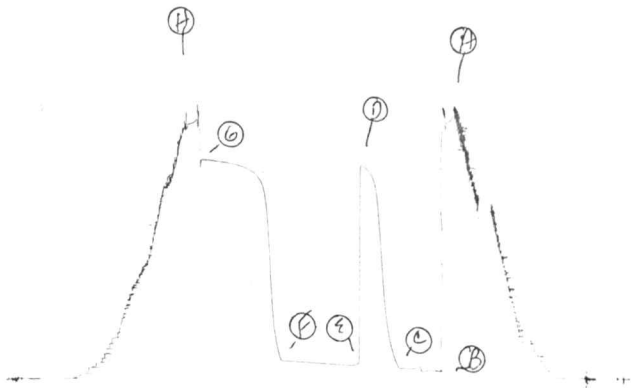
PRESSURE BREAKDOWN

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 <u>0</u>	<u>46</u>	<u>0</u>	<u>44</u>	<u>0</u>	<u>82</u>	<u>0</u>	<u>113</u>
P 2 <u>5</u>	<u>51</u>	<u>3</u>	<u>123</u>	<u>5</u>	<u>82</u>	<u>3</u>	<u>194</u>
P 3 <u>10</u>	<u>55</u>	<u>6</u>	<u>222</u>	<u>10</u>	<u>82</u>	<u>6</u>	<u>350</u>
P 4 <u>15</u>	<u>58</u>	<u>9</u>	<u>385</u>	<u>15</u>	<u>87</u>	<u>9</u>	<u>727</u>
P 5 <u>20</u>	<u>60</u>	<u>12</u>	<u>683</u>	<u>20</u>	<u>91</u>	<u>12</u>	<u>1109</u>
P 6 <u>25</u>	<u>62</u>	<u>15</u>	<u>1013</u>	<u>25</u>	<u>95</u>	<u>15</u>	<u>1233</u>
P 7 <u>30</u>	<u>64</u>	<u>18</u>	<u>1214</u>	<u>30</u>	<u>97</u>	<u>18</u>	<u>1269</u>
P 8 <u>35</u>		<u>21</u>	<u>1281</u>	<u>35</u>	<u>100</u>	<u>21</u>	<u>1295</u>
P 9 <u>40</u>		<u>24</u>	<u>1314</u>	<u>40</u>	<u>103</u>	<u>24</u>	<u>1312</u>
P10 <u>45</u>		<u>27</u>	<u>1333</u>	<u>45</u>	<u>106</u>	<u>27</u>	<u>1325</u>
P11 <u>50</u>		<u>30</u>	<u>1337</u>	<u>50</u>	<u>109</u>	<u>30</u>	<u>1333</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>	<u>111</u>	<u>33</u>	<u>1239</u>
P13 <u>60</u>		<u>36</u>		<u>60</u>	<u>113</u>	<u>36</u>	<u>1246</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>1251</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>1255</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	<u>1259</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>1362</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>1365</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>1368</u>
P20		<u>57</u>				<u>57</u>	<u>1371</u>
		<u>60</u>				<u>60</u>	<u>1373</u>

DST # 3

JK # 2825

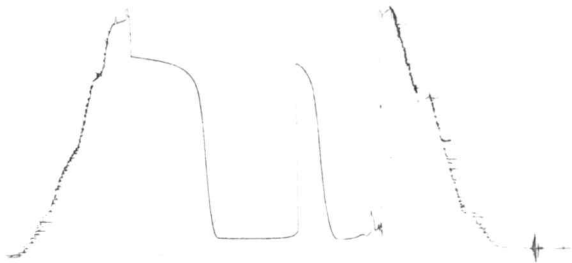
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DST-#3

JK #2825
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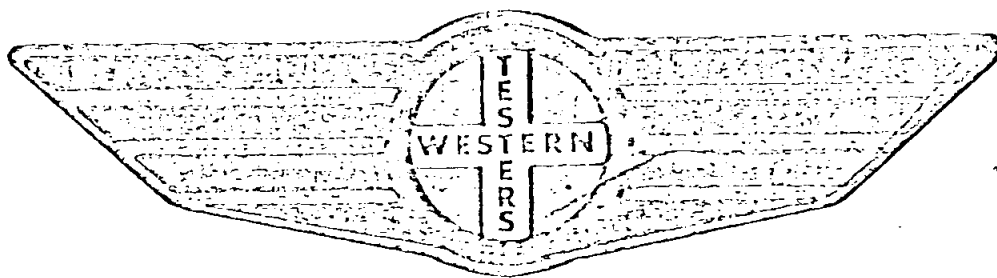


5673

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company KALINS & WILLIAMSON OIL CO. INC. Lease and Well No. #1 HUNT Sec. 2 Twp. 31S Rge. 1E Test No. 3 Date 6/14/84

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-14-84
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: #1 TEST: 3
ELEVATION (KB): 1207 FORMATION: MISSISSIPPI
SECTION: 2 TOWNSHIP: 31S
RANGE: 1E COUNTY: SUMNER STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

INTERVAL TEST FROM: 3358 FT TO: 3369 FT TOTAL DEPTH: 3369 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3353 FT SIZE: 6 5/8 IN PACKER DEPTH: 3358 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: COMPANY TOOLS RIG 3
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 9.5 WATER LOSS (CC): 12.2
CHLORIDES (P.P.M.): 40000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 519 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2818 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5.5 OD IN
ANCHOR LENGTH: 11 FT SIZE: 5.5 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4.5 XH IN

BLOW: FAIR INCREASED TO BOTTOM OF 5 GALLON BUCKET IN
24 MINUTES ON THE INITIAL FLOW PERIOD.
OFF BOTTOM OF BUCKET DURING THE FINAL FLOW PERIOD.

RECOVERED: 50	FT	OF: MUD CUT GASSY OIL; 53% GAS 29% OIL 18% MUD
RECOVERED: 60	FT	OF: MUD CUT GASSY OIL; 52% GAS 18% OIL 30% MUD
RECOVERED: 120	FT	OF: MUD CUT GASSY OIL; 65% GAS 17% OIL 18% MUD
RECOVERED: 60	FT	OF: MUD CUT GASSY OIL; 45% GAS 25% OIL 30% MUD
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: SOME FREE OIL IN TOP OF TOOL (GRAVITY 40)

TIME SET PACKER(S): 8:45 AM	TIME STARTED OFF BOTTOM: 11:45 AM
WELL TEMPERATURE: 104 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 1641 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 46 PSI TO (C) 64 PSI
INITIAL CLOSED IN PERIOD MIN: 30	(D) 1337 PSI
FINAL FLOW PERIOD MIN: 60	(E) 82 PSI TO (F) 113 PSI
FINAL CLOSED IN PERIOD MIN: 60	(G) 1373 PSI
FINAL HYDROSTATIC PRESSURE	(H) 1595 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 4926

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

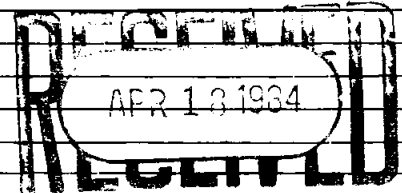
Elevation 11996/1207KB Formation Simpson Eff. Pay — Ft.

RO25 District Great Bend Date 4-16-84 Customer Order No. —
COMPANY NAME Ramsay Williamson Oil Company, Inc.
ADDRESS 435 Page Court, 220 West Douglas Wichita, KS 67202
LEASE AND WELL NO. Hunt #1 COUNTY Sumner STATE Ks Sec. 2 Twp 31 Rge. 1
Mail Invoice To Same as above #1 HUNT No. Copies Requested 3
Co. Name " Address "
Mail Charts To " No. Copies Requested 5
Address "

Formation Test No. 4 Interval Tested From 3734 ft. to 3749 ft. Total Depth 3749 ft.
Packer Depth 3729 ft. Size 678 in. Packer Depth — ft. Size — in.
Packer Depth 3734 ft. Size 678 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —
Top Recorder Depth (Inside) 3738 ft. Recorder Number 6077 Cap. 4700
Bottom Recorder Depth (Outside) 3734 ft. Recorder Number 5473 Cap. 5400
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —
Drilling Contractor Cartool Rig Co. Drill Collar Length 519 I. D. 2.2 in.
Mud Type Chemical Viscosity 43 Weight Pipe Length — I. D. — in.
Weight 7.4 Water Loss 11.2 cc. Drill Pipe Length 3194 I. D. 3.8 in.
Chlorides 6000 P.P.M. Test Tool Length 21 ft. Tool Size 51200 in.
Jars: Make — Serial Number — Anchor Length 15 ft. Size 51200 in.
Did Well Flow? — Reversed Out — Surface Choke Size 34 in. Bottom Choke Size 34 in.
Main Hole Size 778 in. Tool Joint Size 4 1/2 KH in.

Blow Very weak, died in 12 min. of LFP M. blow 778

Recovered 10 ft. of Mud w/a show of oil
Recovered — ft. of —
Recovered — ft. of —
Recovered — ft. of —
Recovered — ft. of —
Chlorides 6400 P.P.M. Sample Jars used 1 Remarks: —



Time On Location 3:00 A.M. Time Pick Up Tool 4:25 P.M. Time Off Location ✓ A.M.
Time Set Packer(s) 7:00 A.M. Time Started Off Bottom 9:00 P.M. Maximum Temperature 113+
Initial Hydrostatic Pressure — (A) 1923 P.S.I.
Initial Flow Period — Minutes 30 (B) 12 P.S.I. to (C) 12 P.S.I.
Initial Closed In Period — Minutes 30 (D) 212 P.S.I.
Final Flow Period — Minutes 30 (E) 25 P.S.I. to (F) 25 P.S.I.
Final Closed In Period — Minutes 30 (G) 200 P.S.I.
Final Hydrostatic Pressure — (H) 1837 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] 4/16/84
Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$ —
Straddle Test \$ —
Jars \$ —
Selective Zone \$ —
Safety Joint \$ —
Standby \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. \$ —
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —
Insurance \$ 50.00
Telecopier \$ —
TOTAL \$ 600.00

WESTERN TESTING CO., INC.

Pressure Data

Date: 4-16-84 Test Ticket No. 4930

Recorder No. 6077 Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

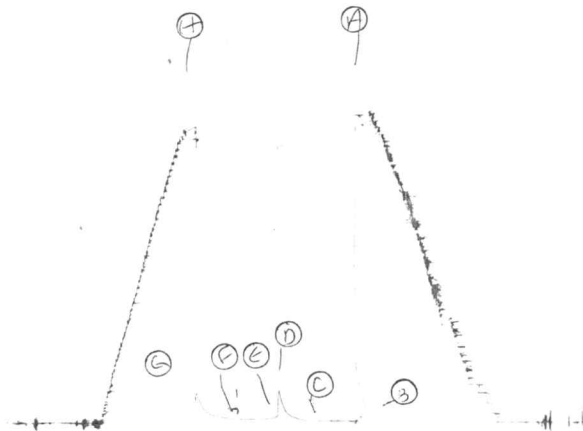
Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1923</u>	<u>1923</u>			
B First Initial Flow Pressure	<u>10</u>	<u>10</u>			
C First Final Flow Pressure	<u>10</u>	<u>10</u>			
D Initial Closed-in Pressure	<u>203</u>	<u>203</u>			
E Second Initial Flow Pressure	<u>20</u>	<u>20</u>			
F Second Final Flow Pressure	<u>20</u>	<u>20</u>			
G Final Closed-in Pressure	<u>191</u>	<u>191</u>			
H Final Hydrostatic Mud	<u>1844</u>	<u>1844</u>			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>10</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	Press.	Point	Press.	Point	Press.	Point	Press.
Mins.		Minutes		Minutes		Minutes	
P 1 0	<u>10</u>	0	<u>10</u>	0	<u>20</u>	0	<u>20</u>
P 2 5		3	<u>10</u>	5		3	<u>20</u>
P 3 10		6	<u>12</u>	10		6	<u>25</u>
P 4 15		9	<u>15</u>	15		9	<u>30</u>
P 5 20		12	<u>21</u>	20		12	<u>34</u>
P 6 25		15	<u>29</u>	25		15	<u>42</u>
P 7 30	<u>10</u>	18	<u>42</u>	30	<u>20</u>	18	<u>48</u>
P 8 35		21	<u>71</u>	35		21	<u>58</u>
P 9 40		24	<u>132</u>	40		24	<u>83</u>
P10 45		27	<u>202</u>	45		27	<u>126</u>
P11 50		30		50		30	<u>191</u>
P12 55		33		55		33	
P13 60		36		60		36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

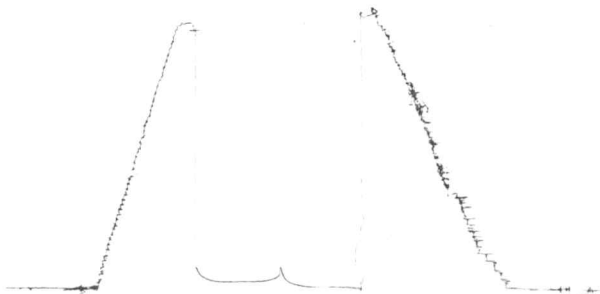
ICK# 4926

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6077

TK# 4926
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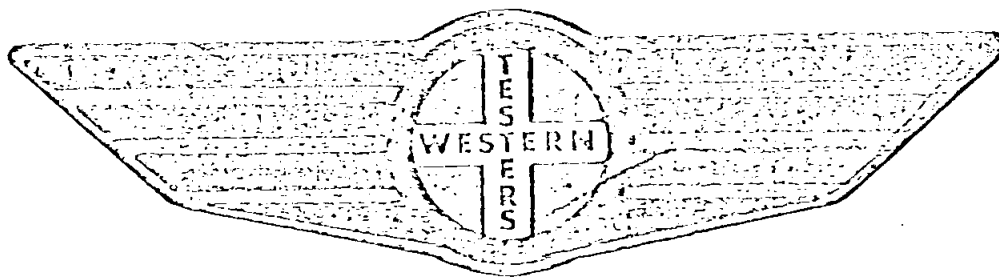


5673

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

APARTAINS & WILLIAMSON OIL CO. INC. Lease and Well No. #1 HUNT Sec. 2 Twp. 31S Rge. 1E Test No. 4 Date 4/16/8

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4/16/84
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 1 TEST: 4
ELEVATION (KB): 1207 FORMATION: SIMPSON
SECTION: 2 TOWNSHIP: 31S
RANGE: 1W COUNTY: SUMNER STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

INTERVAL TEST FROM: 3734 FT TO: 3749 FT TOTAL DEPTH: 3749 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3729 FT SIZE: 6 5/8 IN PACKER DEPTH: 3734 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: CO TOOL

MUD TYPE: CHEM VISCOSITY: 43
WEIGHT: 9.4 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 6000

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

DRILL COLLAR LENGTH: 519 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3194 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 15 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 BLOW
DEAD IN 12 MINUTES. FINAL FLOW
PERIOD NO BLOW.

RECOVERED: 10 FT OF: MUD WITH A SHOW OF OIL.
RECOVERED: FT OF: CHLORIDES 6000 P.P.M.
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:

TIME SET PACKER(S): 7:00 P.M. TIME STARTED OFF BOTTOM: 9:00 P.M.
WELL TEMPERATURE: 113 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1923 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 10 PSI TO (C) 10 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 203 PSI
FINAL FLOW PERIOD MIN: 30 (E) 20 PSI TO (F) 20 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 191 PSI
FINAL HYDROSTATIC PRESSURE (H) 1844 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 4927

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

WICHITA, KANSAS 67201

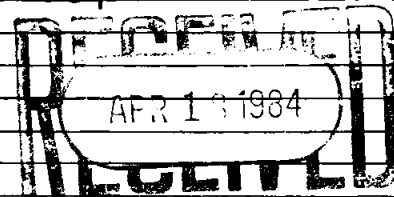
Elevation 119964/1207KB Formation Simpson Eff. Pay — Ft.

RO25 District Great Bend Date 4-17-84 Customer Order No. —
COMPANY NAME Lains & W. Williams Oil Company, Inc
ADDRESS 435 Page Court, 220 West Douglas Wichita, Ks 67202
LEASE AND WELL NO. Hunt - 1 COUNTY Sumner STATE Ks Sec. 2 Twp. 31S Rge. 1E
Mail Invoice To Same as above #1 HUNT No. Copies Requested 5
Co. Name " " Address " "
Mail Charts To " " No. Copies Requested 5
Address " "

Formation Test No. 5 Interval Tested From 3738 ft. to 3753 ft. Total Depth 3753 ft.
Packer Depth 3733 ft. Size 6 7/8 in. Packer Depth — ft. Size — in.
Packer Depth 3738 ft. Size 6 7/8 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3742 ft. Recorder Number 6077 Cap. 4700
Bottom Recorder Depth (Outside) 3745 ft. Recorder Number 5473 Cap. 5400
Below Saddle Recorder Depth — ft. Recorder Number — Cap. —
Drilling Contractor Co. tool Rig #3 Drill Collar Length 519 I. D. 2.1 in.
Mud Type Chemical Viscosity 42 Weight Pipe Length — I. D. — in.
Weight 9.7 Water Loss 1102 cc. Drill Pipe Length 3198 I. D. 3.8 in.
Chlorides 6000 P.P.M. Test Tool Length 21 ft. Tool Size 5/200 in.
Jars: Make — Serial Number — Anchor Length 15 ft. Size 5/200 in.
Did Well Flow? — Reversed Out — Surface Choke Size 34 in. Bottom Choke Size 34 in.
Main Hole Size 7 7/8 in. Tool Joint Size 2 1/2 X 4 in.

Blow: Very weak, only a few bubbles towards end of TFP
Very weak, died in 8 min of TFP
Recovered 20' ft. of Mud w/ show of oil in top of tool
Recovered — ft. of —
Recovered — ft. of —
Recovered — ft. of —
Recovered — ft. of —
Chlorides 6100 P.P.M. Sample Jars used 1 Remarks: —



Time On Location Layover A.M. P.M. Time Pick Up Tool 6:20 A.M. P.M. Time Off Location 2:15 A.M. P.M.
Time Set Packer(s) 3:30 A.M. P.M. Time Started Off Bottom 10:30 A.M. P.M. Maximum Temperature 114
Initial Hydrostatic Pressure — (A) 1875 P.S.I.
Initial Flow Period — Minutes 30 (B) 37 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period — Minutes 30 (D) 1176 P.S.I.
Final Flow Period — Minutes 30 (E) 37 P.S.I. to (F) 25 P.S.I.
Final Closed In Period — Minutes 30 (G) 1200 P.S.I.
Final Hydrostatic Pressure — (H) 1850 P.S.I.

COMPANY TERMS

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

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

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

Western Representative [Signature]

FIELD INVOICE

Open Hole Test \$ 550.00
Misrun \$ —
Straddle Test \$ —
Jars \$ —
Selective Zone \$ —
Safety Joint \$ —
Standby \$ —
Evaluation \$ —
Extra Packer \$ —
Circ. Sub. \$ —
Mileage \$ —
Fluid Sampler \$ —
Extra Charts \$ —
Insurance \$ 50.00
Telecopier \$ —
TOTAL \$ 600.00

WESTERN TESTING CO., INC.

Pressure Data

Date: 4-17 Test Ticket No. 4927

Recorder No. 6077 Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1874</u> P.S.I.		M
B First Initial Flow Pressure	<u>28</u> P.S.I.	<u>30</u> Mins.	
C First Final Flow Pressure	<u>28</u> P.S.I.		
D Initial Closed-in Pressure	<u>1164</u> P.S.I.		
E Second Initial Flow Pressure	<u>32</u> P.S.I.		
F Second Final Flow Pressure	<u>32</u> P.S.I.		
G Final Closed-in Pressure	<u>1176</u> P.S.I.		
H Final Hydrostatic Mud	<u>1864</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>10</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>12</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>28</u>	0	<u>28</u>	0	<u>32</u>	0	<u>32</u>
P 2 5		3	<u>37</u>	5		3	<u>37</u>
P 3 10		6	<u>60</u>	10		6	<u>50</u>
P 4 15		9	<u>109</u>	15		9	<u>75</u>
P 5 20		12	<u>317</u>	20		12	<u>190</u>
P 6 25		15	<u>672</u>	25		15	<u>490</u>
P 7 30	<u>28</u>	18	<u>899</u>	30	<u>32</u>	18	<u>744</u>
P 8 35		21	<u>1031</u>	35		21	<u>895</u>
P 9 40		24	<u>1107</u>	40		24	<u>996</u>
P10 45		27	<u>1164</u>	45		27	<u>1062</u>
P11 50		30		50		30	<u>1114</u>
P12 55		33		55		33	<u>1148</u>
P13 60		36		60		36	<u>1176</u>
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

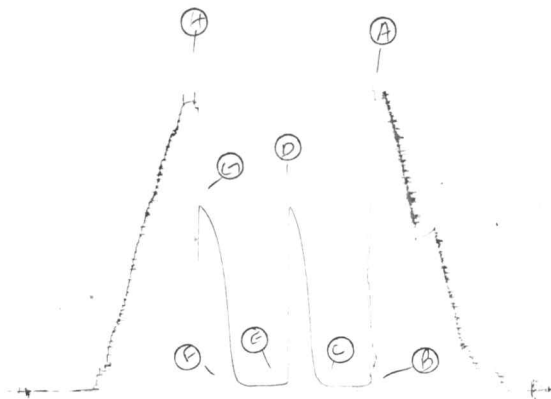
tick# 4927



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HC# 4927

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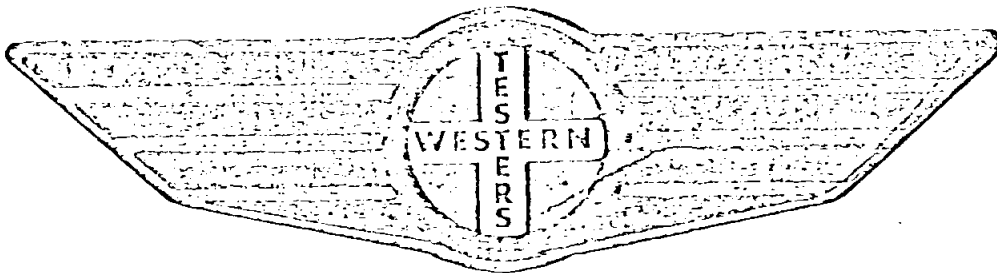


6077

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4/17/84
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 1 TEST: 5
ELEVATION (KB): 1207 FORMATION: SIMPSON
SECTION: 2 TOWNSHIP: 31S
RANGE: 1E COUNTY: SUMNER STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

TICKET #4927

LEASE: HUNT

GEOLOGIST: CALWERT

INTERVAL TEST FROM: 3738 FT TO: 3753 FT TOTAL DEPTH: 3753 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3733 FT SIZE: 6 5/8 IN PACKER DEPTH: 3738 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: CO TOOLS

MUD TYPE: CHEM

VISCOSITY: 42

WEIGHT: 9.4

WATER LOSS (CC): 11.2

CHLORIDES (P.P.M.): 6000

JARS - MAKE:

SERIAL NUMBER:

DID WELL FLOW?

REVERSED OUT?

DRILL COLLAR LENGTH: 519 FT I.D.: 2.25 IN

WEIGHT PIPE LENGTH: FT I.D.: IN

DRILL PIPE LENGTH: 3198 FT I.D.: 3.8 IN

TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 O.D. IN

ANCHOR LENGTH: 15 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 ONLY
FEW BUBBLES TOWARDS THE END. FINAL
FLOW PERIOD VERY WEAK DEAD IN 8 MINUTES.

RECOVERED: 20 FT OF: MUD WITH SHOW OF OIL IN TOP OF TOOL.
RECOVERED: FT OF: CHLORIDES 6100 P.P.M.
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:

TIME SET PACKER(S): 8:30 A.M.

TIME STARTED OFF BOTTOM: 10:30 A.M.

WELL TEMPERATURE: 114 °F

INITIAL HYDROSTATIC PRESSURE:

(A) 1874 PSI

INITIAL FLOW PERIOD MIN: 30

(B) 28 PSI TO (C) 28 PSI

INITIAL CLOSED IN PERIOD MIN: 27

(D) 1164 PSI

FINAL FLOW PERIOD MIN: 30

(E) 32 PSI TO (F) 32 PSI

FINAL CLOSED IN PERIOD MIN: 36

(G) 1176 PSI

FINAL HYDROSTATIC PRESSURE

(H) 1866 PSI

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15
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