



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº

7061

P. O. BOX 1599

PHONE (316) 262-5861

Elevation

1810 KB

Formation

L/KC

Eff. Pay Ft.

WICHITA, KANSAS 67201

District

Great Bend

Date

4/10/85

Customer Order No.

COMPANY NAME

ADDRESS

LEASE AND WELL NO.

Mail Invoice To

Co. Name

Mail Charts To

Address

Address

Formation Test No.

Interval Tested From

ft. to

ft. Total Depth

ft.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

Bottom Recorder Depth (Outside)

Below Saddle Recorder Depth

Recorder Number

Cap.

Recorder Number

Cap.

Recorder Number

Cap.

Drilling Contractor

Mud Type

Viscosity

Weight

Water Loss

Chlorides

Jars: Make

Serial Number

Did Well Flow?

Reversed Out

Drill Collar Length

I. D.

Weight Pipe Length

I. D.

Drill Pipe Length

I. D.

Test Tool Length

ft.

Tool Size

Anchor Length

ft.

Size

Surface Choke Size

in.

Bottom Choke Size

Main Hole Size

in.

Tool Joint Size

Blow:

FFP:

Recovered

Recovered

Recovered

Recovered

Recovered

Chlorides

P.P.M.

Sample Jars used

Remarks:

Time On Location

Time Set Packer(s)

Initial Hydrostatic Pressure

Initial Flow Period

Initial Closed In Period

Final Flow Period

Final Closed In Period

Final Hydrostatic Pressure

Time Pick Up Tool

Time Started Off Bottom

(A)

(B)

(C)

(D)

(E)

(F)

(G)

(H)

Time Off Location

Maximum Temperature

P.S.I.

P.S.I. to (C)

P.S.I.

P.S.I. to (F)

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

P.S.I.

FIELD INVOICE

Open Hole Test

Misrun

Straddle Test

Jars

Selective Zone

Safety Joint

Standby

Evaluation

Extra Packer

Circ. Sub.

Mileage

Fluid Sampler

Extra Charts

Insurance

Telecopier

TOTAL

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

DS00

WESTERN TESTING CO., INC.

Pressure Data

Date 4/10/85
Recorder No. 6077

Test Ticket No. 2061
Location _____

Clock No. _____ Elevation _____ Well Temperature _____

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1557</u>	P.S.I.		M
B. First Initial Flow Pressure	<u>71</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>77</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>445</u>	P.S.I.	<u>60</u> Mins.	<u>55</u> Mins.
E. Second Initial Flow Pressure	<u>96</u>	P.S.I.	<u>30</u> Mins.	<u>33</u> Mins.
F. Second Final Flow Pressure	<u>136</u>	P.S.I.		
G. Final Closed-in Pressure	<u>434</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>1533</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: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

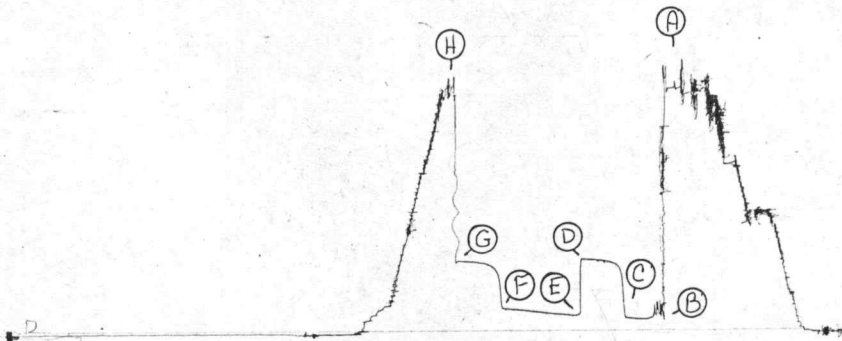
Final Shut-In
Breakdown: 12 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>71</u>	0	<u>77</u>	0	<u>96</u>	0	<u>136</u>
P 2 5	<u>7</u>	3	<u>380</u>	5	<u>96</u>	3	<u>326</u>
P 3 10	<u>71</u>	6	<u>411</u>	10	<u>98</u>	6	<u>380</u>
P 4 15	<u>71</u>	9	<u>422</u>	15	<u>102</u>	9	<u>402</u>
P 5 20	<u>71</u>	12	<u>430</u>	20	<u>105</u>	12	<u>412</u>
P 6 25	<u>74</u>	15	<u>435</u>	25	<u>110</u>	15	<u>421</u>
P 7 30	<u>77</u>	18	<u>437</u>	30	<u>115</u>	18	<u>424</u>
P 8 35		21	<u>439</u>	35	<u>122</u>	21	<u>427</u>
P 9 40		24	<u>441</u>	40	<u>127</u>	24	<u>429</u>
P 10 45		27	<u>443</u>	45	<u>131</u>	27	<u>431</u>
P 11 50		30	<u>445</u>	50	<u>134</u>	30	<u>433</u>
P 12 55		33		55	<u>136</u>	33	<u>434</u>
P 13 60		36		60		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	

6077

TKT # 7061

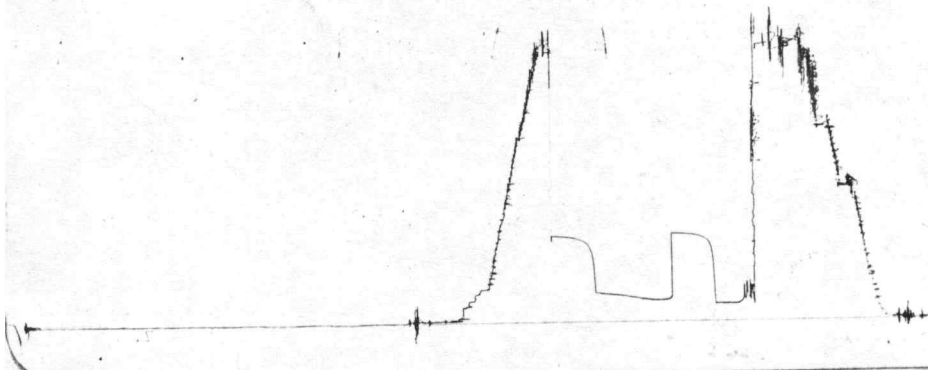
I



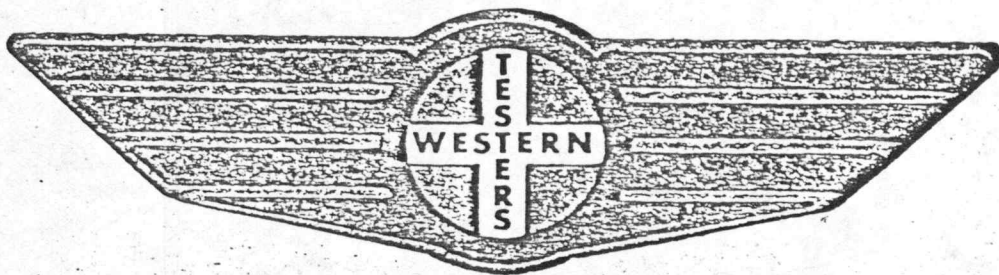
11028

TKT # 7061

O



FORMATION TEST REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

Phone (316) 262-5861

Company

KALINS & WILLIAMSON OIL

Lease & Well No.

#1 STOPPEL-SCHRANT

Sec. 12

Twp. 13S

Rge. 15W

Test No. 1

Date

4/10/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-10-85
CUSTOMER: RAINS & WILLIAMSON OIL CO.
WELL: 1 TEST: 1
ELEVATION (KB): 1810 FORMATION: LOWER KANSAS CITY
SECTION: 12 TOWNSHIP: 13S
RANGE: 15W COUNTY: RUSSELL STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

INTERVAL TEST FROM: 2988 FT TO: 3015 FT TOTAL DEPTH: 3015 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2983 FT SIZE: 6 5/8 IN PACKER DEPTH: 2988 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: STARCH VISCOSITY: 43
WEIGHT: 9.5 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 53000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 118 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2849 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 27 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 SLOWLY INCREASING TO STRONG
11" BLOW AT END OF PERIOD.
FINAL FLOW PERIOD SLOWLY INCREASING TO STRONG
11" BLOW HALFWAY THROUGH FLOW.

RECOVERED: 180 FT OF: OIL & GAS CUT WATERY MUD
RECOVERED: 180 FT OF: GASSY WATER WITH SLIGHT OIL CUT (1% OIL).
RECOVERED: 360 FT OF: GAS ABOVE FLUID.
RECOVERED: FT OF: CHLORIDES 79000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: SLID TOOL OPENED 6 FT TO BOTTOM.

TIME SET PACKER(S): 7:35 AM TIME STARTED OFF BOTTOM: 10:05 AM
WELL TEMPERATURE: 102 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1557 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 71 PSI TO (C) 77 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 445 PSI
FINAL FLOW PERIOD MIN: 55 (E) 96 PSI TO (F) 136 PSI
FINAL CLOSED IN PERIOD MIN: 33 (G) 434 PSI
FINAL HYDROSTATIC PRESSURE (H) 1533 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 7062

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

Elevation 1810 KB Formation 4/KC Eff. Pay Ft.

District 11 Great Bend Date 4-10-85 Customer Order No.

COMPANY NAME Rams & Williamson Oil Co Inc

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

LEASE AND WELL NO Stoppel-Schranth COUNTY Russell STATE KS Sec. 12 Twp. 13 Rge. 15 W

Mail Invoice To Same As Above No. Copies Requested 5

Co. Name #1 Stoppel-Schranth Address No. Copies Requested 5

Formation Test No. 2 Interval Tested From 3017 ft. to 3027 ft. Total Depth 3027 ft.

Packer Depth 3012 ft. Size 698 in. Packer Depth ft. Size in.

Packer Depth 3017 ft. Size 698 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3019 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 3023 ft. Recorder Number 11028 Cap. 4300

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Co tools Rig 89 Drill Collar Length 118 I. D. 2 1/2 in.

Mud Type starch Viscosity .54 Weight Pipe Length I. D. in.

Weight 9.5 Water Loss 10.4 cc. Drill Pipe Length 2878 I. D. 3.8 in.

Chlorides 53,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 10 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: IFP - Weak slowly increasing to fan 2" blow at end of period

IFP - Very weak slowly increased to 1" at end of period

Recovered ft. of

Recovered ft. of

Recovered 30 ft. of muddy water

Recovered 120 ft. of water

Recovered ft. of

Chlorides 78,000 P.P.M. Sample Jars used 3 Remarks: read outside chart

Time On Location 6:00 A.M. Time Pick Up Tool 6:30 A.M. Time Off Location 1:10 A.M.

Time Set Packer(s) 7:55 A.M. Time Started Off Bottom 10:25 A.M. Maximum Temperature 103

Initial Hydrostatic Pressure (A) 1628 P.S.I.

Initial Flow Period Minutes 30 (B) 53 P.S.I. to (C) 64 P.S.I.

Initial Closed In Period Minutes 30 (D) 517 P.S.I.

Final Flow Period Minutes 60 (E) 75 P.S.I. to (F) 96 P.S.I.

Final Closed In Period Minutes 30 (G) 506 P.S.I.

Final Hydrostatic Pressure (H) 1607 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 Mike Engelhardt
Signature of Customer or his authorized representative

Western Representative Rene Cherant

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 4-10-85 Test Ticket No. 7062
 Recorder No. 11028 Capacity _____ Location _____ Ft
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1622</u> P.S.I.	Open Tool	M	
B First Initial Flow Pressure	<u>54</u> P.S.I.	First Flow Pressure	<u>30</u> Mins. <u>35</u> Mins	
C First Final Flow Pressure	<u>64</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins. <u>27</u> Mins	
D Initial Closed-in Pressure	<u>519</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins. <u>60</u> Mins	
E Second Initial Flow Pressure	<u>85</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins. <u>30</u> Mins	
F Second Final Flow Pressure	<u>95</u> P.S.I.			
G Final Closed-in Pressure	<u>512</u> P.S.I.			
H Final Hydrostatic Mud	<u>1607</u> P.S.I.			

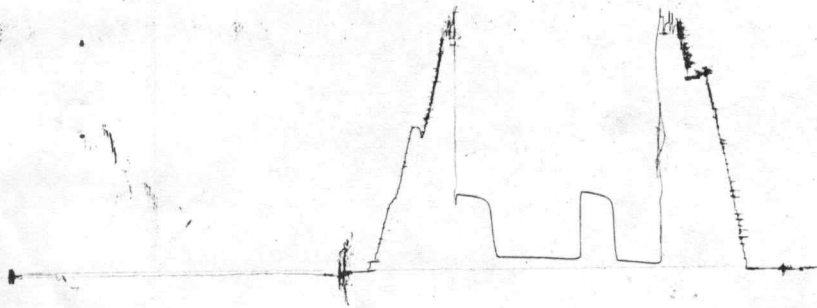
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>8</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>13</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>54</u>	0	<u>64</u>	0	<u>85</u>	0	<u>95</u>
P 2 5	<u>54</u>	3	<u>381</u>	5	<u>7</u>	3	<u>198</u>
P 3 10	<u>54</u>	6	<u>463</u>	10	<u>85</u>	6	<u>409</u>
P 4 15	<u>56</u>	9	<u>483</u>	15	<u>86</u>	9	<u>468</u>
P 5 20	<u>58</u>	12	<u>496</u>	20	<u>88</u>	12	<u>483</u>
P 6 25	<u>60</u>	15	<u>503</u>	25	<u>90</u>	15	<u>494</u>
P 7 30	<u>62</u>	18	<u>510</u>	30	<u>91</u>	18	<u>499</u>
P 8 35	<u>64</u>	21	<u>513</u>	35	<u>92</u>	21	<u>503</u>
P 9 40		24	<u>517</u>	40	<u>93</u>	24	<u>506</u>
P10 45		27	<u>519</u>	45	<u>94</u>	27	<u>509</u>
P11 50		30		50	<u>94</u>	30	<u>512</u>
P12 55		33		55	<u>95</u>	33	
P13 60		36		60	<u>95</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	

6077

TKT #7062

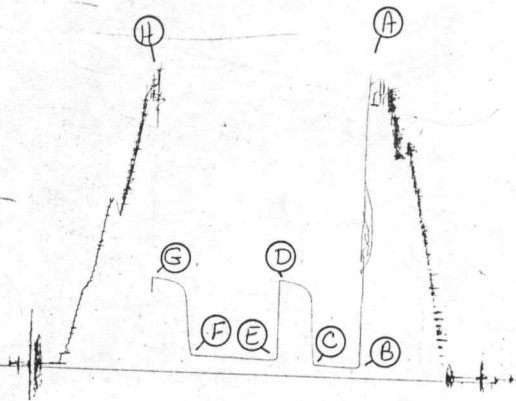
I



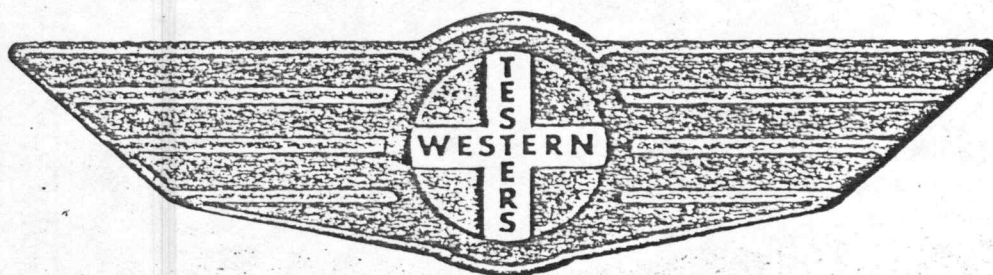
11028

TKT #7062

○



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RAINS & WILLIAMSON OIL Lease & Well No. #1 STOPPEL-SCHRANT Sec. 12 Twp. 13S Rge. 15W Test No. 2 Date 4/10/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-10-85
CUSTOMER: RAINS & WILLIAMSON OIL CO.
WELL: 1 TEST: 2
ELEVATION (KB): 1810 FORMATION: LOWER KANSAS CITY
SECTION: 12 TOWNSHIP: 13S
RANGE: 15W COUNTY: RUSSELL STATE: KANSAS
GAUGE SN #11028 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 3017 FT TO: 3027 FT TOTAL DEPTH: 3027 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3012 FT SIZE: 6 5/8 IN PACKER DEPTH: 3017 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: STARCH VISCOSITY: 54
WEIGHT: 9.5 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 53000

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

DRILL COLLAR LENGTH: 118 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2878 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 10 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 SLOWLY INCREASING
TO FAIR 2" BLOW.
FINAL FLOW PERIOD VERY WEAK SLOWLY INCREASING
TO 1" BLOW AT END OF PERIOD.

RECOVERED: 30 FT OF: MUDDY WATER.
RECOVERED: 120 FT OF: WATER.
RECOVERED: FT OF: CHLORIDES 78000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: READ OUTSIDE CHART.

TIME SET PACKER(S): 7:55 PM
WELL TEMPERATURE: 103 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 35
INITIAL CLOSED IN PERIOD MIN: 27
FINAL FLOW PERIOD MIN: 60
FINAL CLOSED IN PERIOD MIN: 30
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 10:25 PM

(A) 1622 PSI
(B) 54 PSI TO (C) 64 PSI
(D) 519 PSI
(E) 85 PSI TO (F) 95 PSI
(G) 512 PSI
(H) 1607 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 7063

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

Elevation 1810 KB Formation KC Eff. Pay Ft.

District 11 Great Bend Date 4-11-85 Customer Order No.

COMPANY NAME Gains & Williamson Oil Co. Inc.

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

LEASE AND WELL NO. Stoppel-Schran COUNTY Russel STATE Kans Sec. 12 Twp. 13 S Rge. 15 W

Mail Invoice To Same as Above No. Copies Requested 5

Co. Name " " " Address No. Copies Requested 5

Mail Charts To " " " Address No. Copies Requested 5

Formation Test No. III Interval Tested From 3134 ft. to 3170 ft. Total Depth 3170 ft.

Packer Depth 3129 ft. Size 6 3/8 in. Packer Depth ft. Size in.

Packer Depth 3134 ft. Size 6 3/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3160 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 3164 ft. Recorder Number 11028 Cap. 4300

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Co. Tools Rig # 9 Drill Collar Length 118 I. D. 2.2 in.

Mud Type Stanch Viscosity 48 Weight Pipe Length I. D. in.

Weight 9.7 Water Loss 8.8 cc. Drill Pipe Length 2995 I. D. 3.8 in.

Chlorides 42,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 36 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 in.

Blow: FFP - Weak, decreasing 3/8" blow, died in 18 min -

FFP - No, blow, Flushed tool no help -

Recovered ft. of

Recovered 5' ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks:

Time On Location 6:00 A.M. Time Pick Up Tool 6:25 A.M. Time Off Location 12:05 A.M.

Time Set Packer(s) 7:55 P.M. Time Started Off Bottom 9:55 P.M. Maximum Temperature 103+

Initial Hydrostatic Pressure (A) 1718 P.S.I.

Initial Flow Period Minutes 30 (B) 62 P.S.I. to (C) 62 P.S.I.

Initial Closed In Period Minutes 30 (D) 77 P.S.I.

Final Flow Period Minutes 30 (E) 62 P.S.I. to (F) 62 P.S.I.

Final Closed In Period Minutes 30 (G) 77 P.S.I.

Final Hydrostatic Pressure (H) 1706 P.S.I.

APR 16 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 Mike Engelbrecht
Signature of Customer or his authorized representative

Western Representative Gene Eberhart

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 4-11-85 Test Ticket No. 7063
 Recorder No. 6077 Capacity _____ Location _____
 Clock No. _____ Elevation _____ Well Temperature _____

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1687</u> P.S.I.	Open Tool		
B First Initial Flow Pressure	<u>49</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>49</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>55</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>47</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>51</u> P.S.I.			
G Final Closed-in Pressure	<u>58</u> P.S.I.			
H Final Hydrostatic Mud	<u>1658</u> P.S.I.			

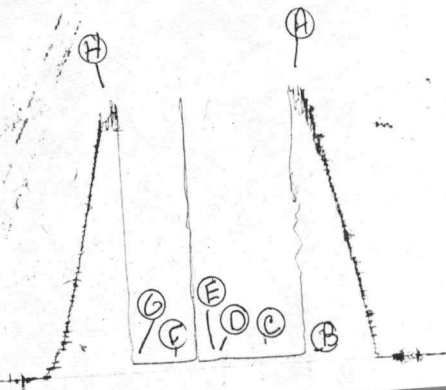
* Flush Tool

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>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	Press.	Point	Press.	Point	Press.	Point	Press.
Mins.		Minutes		Minutes		Minutes	
P 1 0	<u>49</u>	0	<u>49</u>	0	<u>47</u>	0	<u>51</u>
P 2 5		3		5	<u>2</u>	3	<u>51</u>
P 3 10		6		10	<u>47</u>	6	<u>52</u>
P 4 15		9		15	<u>47</u>	9	<u>52</u>
P 5 20		12	<u>49</u>	20	<u>54*</u>	12	<u>53</u>
P 6 25		15	<u>50</u>	25	<u>51</u>	15	<u>53</u>
P 7 30	<u>49</u>	18	<u>51</u>	30	<u>51</u>	18	<u>54</u>
P 8 35		21	<u>52</u>	35		21	<u>54</u>
P 9 40		24	<u>53</u>	40		24	<u>55</u>
P10 45		27	<u>54</u>	45		27	<u>56</u>
P11 50		30	<u>55</u>	50		30	<u>57</u>
P12 55		33		55		33	<u>58</u>
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	

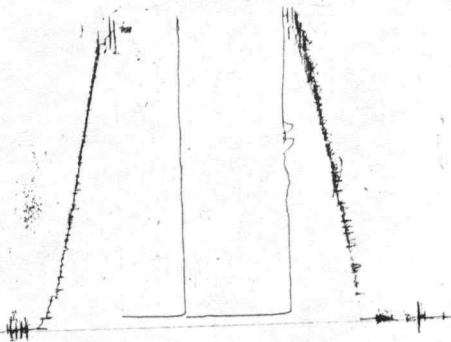
6077#3

TKT # 7063
I

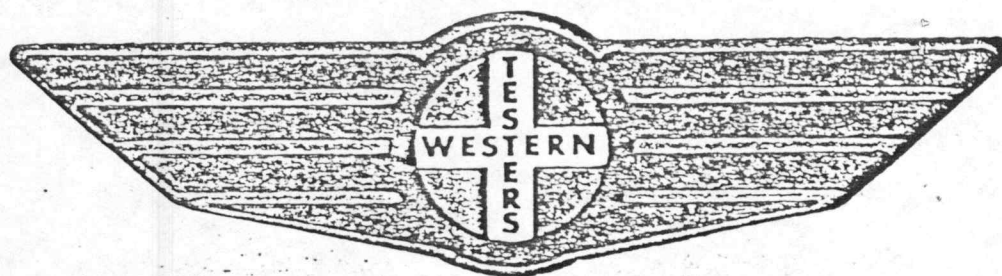


11028 #3

TKT # 7063
0



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RAINS & WILLIAMSON OIL Lease & Well No. #1 STOPPEL-SCHRANT Sec. 12 Twp. 13S Rge. 15W Test No. 3 Date 4/11/83

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-11-85
CUSTOMER: RAINS & WILLIAMSON OIL CO.
WELL: 1 TEST: 3
ELEVATION (KB): 1810 FORMATION: KANSAS CITY
SECTION: 12 TOWNSHIP: 13S
RANGE: 15W COUNTY: RUSSELL STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

INTERVAL TEST FROM: 3134 FT TO: 3170 FT TOTAL DEPTH: 3170 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3129 FT SIZE: 6 5/8 IN PACKER DEPTH: 3134 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: STARCH VISCOSITY: 48
WEIGHT: 9.7 WATER LOSS (CC): 8.8
CHLORIDES (P.P.M.): 42000

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

DRILL COLLAR LENGTH: 118 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2995 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 36 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;
DECREASING 3/8" BLOW; DIED IN 18 MINUTES.
FINAL FLOW PERIOD NO BLOW; FLUSHED
TOOL - NO HELP.

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: FLUSHED TOOL.

TIME SET PACKER(S): 7:55 PM
WELL TEMPERATURE: 103 °F
INITIAL HYDROSTATIC PRESSURE:
INITIAL FLOW PERIOD MIN: 30
INITIAL CLOSED IN PERIOD MIN: 30
FINAL FLOW PERIOD MIN: 30
FINAL CLOSED IN PERIOD MIN: 33
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 9:55 PM
(A) 1687 PSI
(B) 49 PSI TO (C) 49 PSI
(D) 55 PSI
(E) 47 PSI TO (F) 51 PSI
(G) 58 PSI
(H) 1658 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET N° 7064

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

Elevation 1810 KB Formation Arbuckle Eff. Pay Ft.

District Great Bend Date 4-12-85 Customer Order No.

COMPANY NAME Rains & Williamson Oil Co. Inc.

ADDRESS 435 Page Court 220 West Douglas Wichita, Ks 67202

LEASE AND WELL NO. Stoppel-Schrant #1 COUNTY Russell STATE Ks Sec. 12 Twp. 13 S Rge. 15 E

Mail Invoice To Co. Name Same No. Copies Requested 5

Mail Charts To #1 Stoppel-Schrant Address No. Copies Requested 5

Formation Test No. 4 Interval Tested From 3233 ft. to 3257 ft. Total Depth 3257 ft.

Packer Depth 3228 ft. Size 6 5/8 in. Packer Depth 3257 ft. Size 6 5/8 in.

Packer Depth 3233 ft. Size 6 5/8 in. Packer Depth 3257 ft. Size 6 5/8 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3249 ft. Recorder Number 6077 Cap. 4700

Bottom Recorder Depth (Outside) 3253 ft. Recorder Number 11028 Cap. 4300

Below Saddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Co Tools Rig #9 Drill Collar Length 118 I. D. 2 1/2 in.

Mud Type starch Viscosity 50 Weight Pipe Length I. D. in.

Weight 9.8 Water Loss 10.4 cc. Drill Pipe Length 3094 I. D. 3 1/8 in.

Chlorides 58,000 P.P.M. Test Tool Length 21 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 Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 x 11 in.

Blow: TFP - Very Weak; surface flow only, died in 10 min.
TFP - NO blow, flushed tool, no help

Recovered 3 ft. of Drilling Mud w/ some oil specks in tool

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used 1 Remarks: Hit bridge 490 up hole

Time On Location 4:20 A.M. Time Pick Up Tool 6:10 A.M. Time Off Location 11:15 A.M.
Time Set Packer(s) 7:15 A.M. Time Started Off Bottom 9:15 A.M. Maximum Temperature 103+
Initial Hydrostatic Pressure (A) 1778 P.S.I.
Initial Flow Period Minutes 30 (B) 25 P.S.I. to (C) 25 P.S.I.
Initial Closed In Period Minutes 30 (D) 37 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) 37 P.S.I.
Final Hydrostatic Pressure (H) 1754 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: Mike Engelbrecht
Signature of Customer or his authorized representative

Western Representative: Gene Eberhart

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 \$

0500

WESTERN TESTING CO., INC.

Pressure Data

Date 4-12-85

Test Ticket No. 2064

Recorder No. 6077

Capacity _____ Location _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1749</u> P.S.I.	Open Tool	M	
B First Initial Flow Pressure	<u>22</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>20</u> Mins.
C First Final Flow Pressure	<u>25</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>38</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>28</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>27</u> Mins.
F Second Final Flow Pressure	<u>31</u> P.S.I.			
G Final Closed-in Pressure	<u>29</u> P.S.I.			
H Final Hydrostatic Mud	<u>1725</u> P.S.I.			

* Flush Tool

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>10</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>22</u>	0	<u>25</u>	0	<u>28</u>	0	<u>31</u>
P 2 5	<u>5</u>	3	<u>25</u>	5	<u>34</u> *	3	<u>5</u>
P 3 10	<u>5</u>	6	<u>24</u>	10	<u>31</u>	6	<u>5</u>
P 4 15	<u>22</u>	9	<u>27</u>	15	<u>5</u>	9	<u>31</u>
P 5 20	<u>23</u>	12	<u>28</u>	20	<u>5</u>	12	<u>32</u>
P 6 25	<u>24</u>	15	<u>29</u>	25	<u>5</u>	15	<u>34</u>
P 7 30	<u>25</u>	18	<u>30</u>	30	<u>31</u>	18	<u>36</u>
P 8 35		21	<u>32</u>	35		21	<u>37</u>
P 9 40		24	<u>34</u>	40		24	<u>38</u>
P10 45		27	<u>36</u>	45		27	<u>39</u>
P11 50		30	<u>38</u>	50		30	
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	

6077

TKT #7064

I

④

④

⑥

⑤

⑤

④

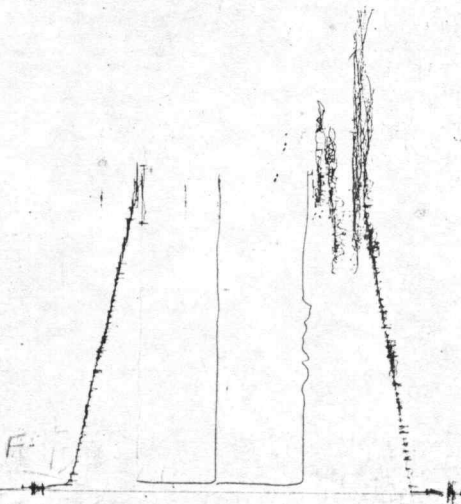
③

11028

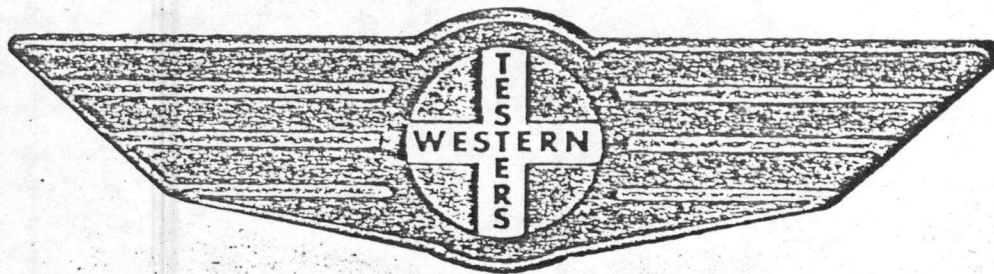
TKT # 7064

O

F-15



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company NAALND & WILLIAMSON ULL
Lease & Well No. #1 STOPPEL-SCHRANT
Sec. 12 Twp. 13S Rge. 15W
Test No. 4 Date 4/12/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-12-85
CUSTOMER: RAINS & WILLIAMSON OIL CO.
WELL: 1 TEST: 4
ELEVATION (KB): 1810 FORMATION: ARBUCKLE
SECTION: 12 TOWNSHIP: 13S
RANGE: 15W COUNTY: RUSSELL STATE: KANSAS
GAUGE SN #6077 RANGE: 4700 CLOCK: 12

INTERVAL TEST FROM: 3233 FT TO: 3257 FT TOTAL DEPTH: 3257 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3228 FT SIZE: 6 5/8 IN Packer DEPTH: 3233 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON
MUD TYPE: STARCH VISCOSITY: 50
WEIGHT: 9.8 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 58000

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

DRILL COLLAR LENGTH: 118 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3094 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 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 VERY WEAK BLOW; SURFACE BLOW
ONLY; DIED IN 10 MINUTES.
FINAL FLOW PERIOD NO BLOW; FLUSHED TOOL - NO HELP.

RECOVERED: 3	FT	OF: DRILLING MUD WITH SOME 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: HIT BRIDGE 490 FT. UP HOLE.
FLUSHED TOOL.

TIME SET PACKER(S): 7:15 PM

TIME STARTED OFF BOTTOM: 9:15 PM

WELL TEMPERATURE: 103 °F

INITIAL HYDROSTATIC PRESSURE:	(A) 1749	PSI	
INITIAL FLOW PERIOD MIN: 30	(B) 22	PSI TO (C) 25	PSI
INITIAL CLOSED IN PERIOD MIN: 30	(D) 38	PSI	
FINAL FLOW PERIOD MIN: 30	(E) 28	PSI TO (F) 31	PSI
FINAL CLOSED IN PERIOD MIN: 27	(G) 39	PSI	
FINAL HYDROSTATIC PRESSURE	(H) 1725	PSI	

