

WESTERN TESTING CO., INC.

Pressure Data

Date 4-29-85 Test Ticket No. 7245
 Recorder No. 13762 Capacity 3925 Location _____ Ft
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1477</u> P.S.I.	Open Tool		M
B. First Initial Flow Pressure	<u>51</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>51</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>933</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E. Second Initial Flow Pressure	<u>58</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>62</u> P.S.I.			
G. Final Closed-in Pressure	<u>874</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1428</u> P.S.I.			

Flashed tool

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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

Second Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

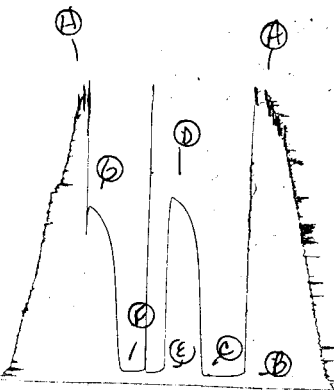
Final Shut-In
 Breakdown: 11 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>51</u>	0	<u>51</u>	0	<u>58</u>	0	<u>62</u>
P 2 5	<u>51</u>	3	<u>202</u>	5	<u>58</u>	3	<u>94</u>
P 3 10	<u>51</u>	6	<u>545</u>	10	<u>58</u>	6	<u>315</u>
P 4 15	<u>51</u>	9	<u>707</u>	15	<u>70</u>	9	<u>543</u>
P 5 20	<u>51</u>	12	<u>786</u>	20	<u>62</u>	12	<u>674</u>
P 6 25	<u>51</u>	15	<u>837</u>	25	<u>62</u>	15	<u>742</u>
P 7 30	<u>51</u>	18	<u>870</u>	30	<u>62</u>	18	<u>785</u>
P 8 35		21	<u>896</u>	35		21	<u>820</u>
P 9 40		24	<u>915</u>	40		24	<u>845</u>
P 10 45		27	<u>928</u>	45		27	<u>864</u>
P 11 50		30	<u>933</u>	50		30	<u>874</u>
P 12 55		33		55		33	
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	

LG # 7245

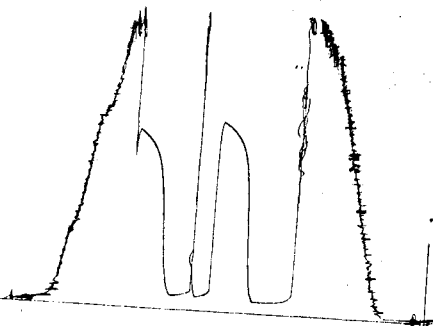
I

13762



24 # 7245
0

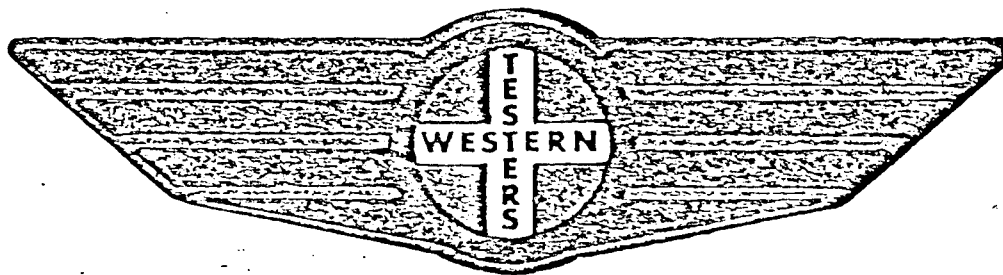
13759



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company RAINS & WILLIAMSON OIL CO INC Lease & Well No. #3 KOELLING Sec. 25 Twp. 10s Rge. 15w Test No. 1 Date 4/29/85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-29-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 3 TEST: 1
ELEVATION (KB): 1827 FORMATION: TOPEKA
SECTION: 25 TOWNSHIP: 10S
RANGE: 15W COUNTY: OSBORNE STATE: KANSAS
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 2750 FT TO: 2767 FT TOTAL DEPTH: 2767 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2745 FT SIZE: 6 5/8 IN PACKER DEPTH: 2750 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS&WILLIAMSON #9
MUD TYPE: SALGELSTAR VISCOSITY: 39
WEIGHT: 9.6 WATER LOSS (CC): 14.0
CHLORIDES (P.P.M.): 45000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2609 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 17 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW; HOSE 1/2" INTO
BUCKET; BLOW REMAINED THROUGHOUT.
FINAL FLOW PERIOD WEAK SURFACE BLOW; DIED
IN 5 MINUTES; FLUSHED TOOL; WEAK SURFACE BLOW;
DIED IN 5 MINUTES: REMAINED DEAD THROUGHOUT.

RECOVERED: 60 FT OF: MUD WITH A FEW OIL SPECKS.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: FLUSHED TOOL FINAL FLOW PERIOD.

TIME SET PACKER(S): 3:50 AM TIME STARTED OFF BOTTOM: 5:50 AM
WELL TEMPERATURE: 96 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1477 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 51 PSI TO (C) 51 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 933 PSI
FINAL FLOW PERIOD MIN: 30 (E) 58 PSI TO (F) 62 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 874 PSI
FINAL HYDROSTATIC PRESSURE (H) 1428 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 4-29-85

CUSTOMER: RAINS & WILLIAMSON OIL CO INC

WELL: 3 TEST: 1

ELEVATION (KB): 1827

SECTION: 25

RANGE: 15W

GAUGE SN #13762

TEST: 1

COUNTY: OSBORNE

RANGE: 3925

TICKET #7245

LEASE: KOELLING

GEOLOGIST: M. ENGELBRECHT

FORMATION: TOPEKA

TOWNSHIP: 10S

STATE: KANSAS

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 1477 PSI

(B) FIRST INITIAL FLOW PRESSURE: 51 PSI

(C) FIRST FINAL FLOW PRESSURE: 51 PSI

(D) INITIAL CLOSED-IN PRESSURE: 933 PSI

(E) SECOND INITIAL FLOW PRESSURE: 58 PSI

(F) SECOND FINAL FLOW PRESSURE: 62 PSI

(G) FINAL CLOSED-IN PRESSURE: 874 PSI

(H) FINAL HYDROSTATIC PRESSURE: 1428 PSI

WELL TEMPERATURE: 96 'F

OPEN TOOL: 3:50 AM

TIME - GIVEN TIME - ACTUAL

	TIME	GIVEN	TIME	NOTCH
FIRST FLOW PRESSURE:	30	MIN	30	MIN

INITIAL CLOSED-IN PRESSURE: 30 MIN 30 MIN

SECOND FLOW PRESSURE: 30 MIN 30 MIN

FINAL CLOSED-IN PRESSURE: 30 MIN 30 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	51	0	51	0	58	0	62
2	5	51	3	202	5	58	3	94
3	10	51	6	545	10	58	6	315
4	15	51	9	707	15	70	9	543
5	20	51	12	786	20	62	12	674
6	25	51	15	837	25	62	15	742
7	30	51	18	870	30	62	18	785
8			21	896			21	820
9			24	915			24	845
10			27	928			27	864
11			30	933			30	874

12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 7246 OK

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

WICHITA, KANSAS 67201

Elevation 1827 KB Formation KANSAS City Eff. Pay — Ft.

COMPANY NAME

ADDRESS

LEASE AND WELL NO.

Mail Invoice To

Mail Charts To

District

Date

Customer Order No.

Formation Test No.

Packer Depth

Packer Depth

Depth of Selective Zone Set

Top Recorder Depth (Inside)

Bottom Recorder Depth (Outside)

Below Straddle Recorder Depth

Drilling Contractor

Mud Type

Weight

Chlorides

Jars: Make

Did Well Flow?

Interval Tested From

ft. Size

ft. Size

ft.

ft.

ft.

DRG #1

Viscosity

Water Loss

P.P.M.

Serial Number

Reversed Out

ft. to ft. Total Depth

ft. Size

ft. Size

Recorder Number

Recorder Number

Recorder Number

Drill Collar Length I. D.

Weight Pipe Length I. D.

Drill Pipe Length I. D.

Test Tool Length Tool Size

Anchor Length Size

Surface Choke Size Bottom Choke Size

Main Hole Size Tool Joint Size

Blow: 1st opening, Weak Blow, Hose 1/4" into Bucket, Blow Died in 15 min. Remain Dead THRU-OUT
2nd opening, No Blow, Flushed Tool in 10 min. GOT SURGE, Blow Remain Dead THRU-OUT

Recovered ft. of

Recovered 20 ft. of (MUD)

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

Time On Location 4:50 A.M.

Time Set Packer(s) 7:50 P.M.

Initial Hydrostatic Pressure

Initial Flow Period

Initial Casing Pressure

Final Flow Period

Final Casing In Record

Final Hydrostatic Pressure

Time Pick Up Tool 6:30 A.M.

Time Started Off Bottom 9:50 A.M.

(A) 1692 P.S.I.

(B) 38 P.S.I. to (C) 38 P.S.I.

(D) 448 P.S.I.

(E) 57 P.S.I. to (F) 57 P.S.I.

(G) 438 P.S.I.

(H) 1662 P.S.I.

Time Off Location 12:00 A.M.

Maximum Temperature 100°

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

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: 4-30-85 Test Ticket No. 7246
 Recorder No. 13762 Capacity 3925 Location _____ Ft
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>1669</u>	P.S.I.		
B. First Initial Flow Pressure	<u>34</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>35</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>452</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E. Second Initial Flow Pressure	<u>45</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F. Second Final Flow Pressure	<u>50</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
G. Final Closed-in Pressure	<u>456</u>	P.S.I.		
H. Final Hydrostatic Mud	<u>1653</u>	P.S.I.		

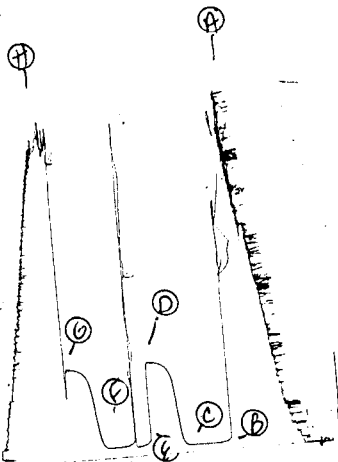
** flushed tool*

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: _____ 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>34</u>	0	<u>35</u>	0	<u>45</u>	0	<u>50</u>
P 2 5	<u>↓</u>	3	<u>42</u>	5	<u>↓</u>	3	<u>55</u>
P 3 10	<u>↓</u>	6	<u>88</u>	10	<u>45</u>	6	<u>92</u>
P 4 15	<u>34</u>	9	<u>260</u>	15	<u>* 55</u>	9	<u>239</u>
P 5 20	<u>35</u>	12	<u>366</u>	20	<u>50</u>	12	<u>345</u>
P 6 25	<u>35</u>	15	<u>408</u>	25	<u>50</u>	15	<u>397</u>
P 7 30	<u>35</u>	18	<u>431</u>	30	<u>50</u>	18	<u>420</u>
P 8 35		21	<u>440</u>	35		21	<u>433</u>
P 9 40		24	<u>448</u>	40		24	<u>439</u>
P 10 45		27	<u>451</u>	45		27	<u>444</u>
P 11 50		30	<u>452</u>	50		30	<u>456</u>
P 12 55		33		55		33	
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	

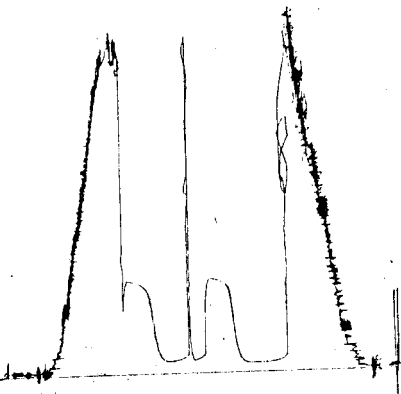
JK # 7246
I

13762



Kit # 7246
0

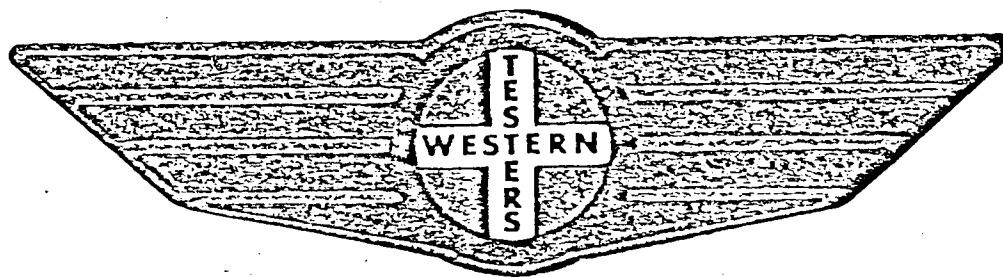
13759



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-30-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 3
ELEVATION (KB): 1827
SECTION: 25
RANGE: 15W
GAUGE SN #13762

TEST: 2
FORMATION: KANSAS CITY
TOWNSHIP: 10S
COUNTY: OSBORNE
RANGE: 3925

TICKET #7246
LEASE: KOELLING
GEOLOGIST: M. ENGELBRECHT
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 3033 FT TO: 3061 FT TOTAL DEPTH: 3061 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3028 FT SIZE: 6 5/8 IN PACKER DEPTH: 3033 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RINS&WILLIAMSON #9
MUD TYPE: STARCH VISCOSITY: 40
WEIGHT: 9.8 WATER LOSS (CC): 12.8
CHLORIDES (P.P.M.): 44000
JARS - MAKE: SERIAL NUMBER:

DID WELL FLOW?

REVERSED OUT?

DRILL COLLAR LENGTH: 120	FT	I.D.: 2.25	IN
WEIGHT PIPE LENGTH:	FT	I.D.:	IN
DRILL PIPE LENGTH: 2892	FT	I.D.: 3.8	IN
TEST TOOL LENGTH: 21	FT	TOOL SIZE: 5 1/2 OD	IN
ANCHOR LENGTH: 28	FT	SIZE: 5 1/2 OD	IN
SURFACE CHOKE SIZE: 3/4	IN	BOTTOM CHOKE SIZE: 3/4	IN
MAIN HOLE SIZE: 7 7/8	IN	TOOL JOINT SIZE: 4 1/2 XH	IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW; HOSE 1/4" IN
BUCKET: BLOW DIED IN 15 MIN.; REMAINED DEAD.
FINAL FLOW PERIOD NO BLOW: FLUSHED TOOL;
IN 10 MIN. GOT SURGE; BLOW REMAINED DEAD.

RECOVERED: 20	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 IN FINAL FLOW PERIOD.

TIME SET PACKER(S): 7:50 AM
WELL TEMPERATURE: 100 °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: 30
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 9:50 AM

(A) 1669	PSI
(B) 34	PSI TO (C) 35
(D) 452	PSI
(E) 45	PSI TO (F) 50
(G) 456	PSI
(H) 1653	PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 4-30-85

CUSTOMER: RAINS & WILLIAMSON OIL CO INC

WELL: 3

ELEVATION (KB): 1827

SECTION: 25

RANGE: 15W

GAUGE SN #13762

TEST: 2

COUNTY: OSBORNE

RANGE: 3925

TICKET #7246

LEASE: KOELLING

GEOLOGIST: M. ENGELBRECHT

FORMATION: KANSAS CITY

TOWNSHIP: 10S

STATE: KANSAS

CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 1669 PSI

(B) FIRST INITIAL FLOW PRESSURE: 34 PSI

(C) FIRST FINAL FLOW PRESSURE: 35 PSI

(D) INITIAL CLOSED-IN PRESSURE: 452 PSI

(E) SECOND INITIAL FLOW PRESSURE: 45 PSI

(F) SECOND FINAL FLOW PRESSURE: 50 PSI

(G) FINAL CLOSED-IN PRESSURE: 456 PSI

(CH) FINAL HYDROSTATIC PRESSURE: 1653 PSI

WELL TEMPERATURE: 100 °F

OPEN TOOL: 7:50 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	30 MIN
SECOND FLOW PRESSURE:	30 MIN	30 MIN
FINAL CLOSED-IN PRESSURE:	30 MIN	30 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	34	0	35	0	45	0	50
2	5	34	3	42	5	45	3	55
3	10	34	6	88	10	45	6	92
4	15	34	9	260	15	55	9	239
5	20	35	12	366	20	50	12	345
6	25	35	15	408	25	50	15	397
7	30	35	18	431	30	50	18	420
8			21	440			21	433
9			24	448			24	439
10			27	451			27	444
11			30	452			30	456

12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 7248

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

Elevation 1827 KB Formation KANSAS City Eff. Pay — Ft.

WICHITA, KANSAS 67201

District Great Bend KS Date April 30, 1985 Customer Order No. —

COMPANY NAME Rains & Williamson Oil Co., Inc.

ADDRESS 435 Page Court 220 West Douglas Wichita KANSAS 67202

LEASE AND WELL NO. Noelling #3 COUNTY OSBORNE STATE KANSAS Sec. 25 Twp. 10S Rge. 15W

Mail Invoice To #3 Noelling Same as above No. Copies Requested 5

Co. Name Address Mail Charts To Same as above No. Copies Requested 5

Address

Formation Test No. #3 Interval Tested From 3064 ft. to 3074 ft. Total Depth 3074 ft.

Packer Depth 3059 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3064 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3068 ft. Recorder Number 13762 Cap. 3925

Bottom Recorder Depth (Outside) 3072 ft. Recorder Number 13759 Cap. 3900

Below Saddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor RAIN & WILLIAMSON Rig 9 Drill Collar Length 120 I. D. 2.25 in.

Mud Type SALT GEL STARCH Viscosity 44 Weight Pipe Length — I. D. — in.

Weight 10.0 Water Loss 12.8 cc. Drill Pipe Length 2923 I. D. 3.8 in.

Chlorides 43,000 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 7/8 in. Tool Joint Size 4 1/2 in.

Blow: 1st opening, weak blow, hose 1/2" into bucket, blow remain thru-out.

2nd opening, weak surface blow, blow died in 14 min, remain thru-out.

Recovered — ft. of

Recovered 30 ft. of Mud / with few oil specks in tool

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

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

Time On Location 4:30 A.M. Time Pick Up Tool 5:30 P.M. Time Off Location 11:15 A.M.

Time Set Packer(s) 6:40 P.M. Time Started Off Bottom 8:40 P.M. Maximum Temperature 100°

Initial Hydrostatic Pressure (A) 1692 P.S.I.

Initial Flow Period Minutes 30 (B) 28 P.S.I. to (C) 28 P.S.I.

Initial Closed In Period Minutes 30 (D) 372 P.S.I.

Final Flow Period Minutes 30 (E) 47 P.S.I. to (F) 47 P.S.I.

Final Closed In Period Minutes 30 (G) 362 P.S.I.

Final Hydrostatic Pressure (H) 1662 P.S.I.

RECEIVED MAY 03 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 Engelbuck
Signature of Customer or his authorized representative

Western Representative Ronnie Mitchell 4/30/85
Thank you! 1325

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 4-30-85 Test Ticket No. 7248
 Recorder No. 13762 Capacity 3925 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1459</u>	P.S.I.		
B First Initial Flow Pressure	<u>28</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>30</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>363</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>41</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>41</u>	P.S.I.		
G Final Closed-in Pressure	<u>355</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1618</u>	P.S.I.		

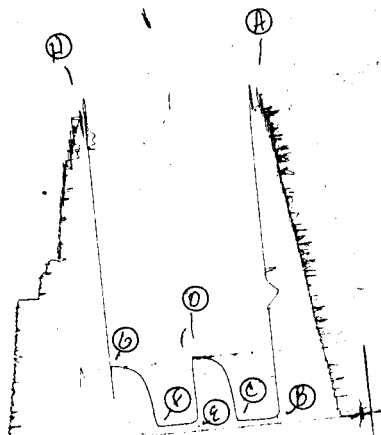
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown:		Breakdown:		Breakdown:		Breakdown:	
<u>7</u> Inc.		<u>11</u> Inc.		<u>7</u> Inc.		<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 <u>0</u>	<u>28</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>41</u>
P 2 <u>5</u>	<u>↓</u>	<u>3</u>	<u>151</u>	<u>5</u>	<u>↓</u>	<u>3</u>	<u>164</u>
P 3 <u>10</u>	<u>28</u>	<u>6</u>	<u>258</u>	<u>10</u>	<u>↓</u>	<u>6</u>	<u>254</u>
P 4 <u>15</u>	<u>28</u>	<u>9</u>	<u>305</u>	<u>15</u>	<u>41</u>	<u>9</u>	<u>292</u>
P 5 <u>20</u>	<u>28</u>	<u>12</u>	<u>323</u>	<u>20</u>	<u>↓</u>	<u>12</u>	<u>315</u>
P 6 <u>25</u>	<u>29</u>	<u>15</u>	<u>338</u>	<u>25</u>	<u>↓</u>	<u>15</u>	<u>328</u>
P 7 <u>30</u>	<u>30</u>	<u>18</u>	<u>346</u>	<u>30</u>	<u>41</u>	<u>18</u>	<u>336</u>
P 8 <u>35</u>		<u>21</u>	<u>353</u>	<u>35</u>		<u>21</u>	<u>345</u>
P 9 <u>40</u>		<u>24</u>	<u>358</u>	<u>40</u>		<u>24</u>	<u>350</u>
P10 <u>45</u>		<u>27</u>	<u>361</u>	<u>45</u>		<u>27</u>	<u>353</u>
P11 <u>50</u>		<u>30</u>	<u>363</u>	<u>50</u>		<u>30</u>	<u>355</u>
P12 <u>55</u>		<u>33</u>		<u>55</u>		<u>33</u>	
P13 <u>60</u>		<u>36</u>		<u>60</u>		<u>36</u>	
P14 <u>65</u>		<u>39</u>		<u>65</u>		<u>39</u>	
P15 <u>70</u>		<u>42</u>		<u>70</u>		<u>42</u>	
P16 <u>75</u>		<u>45</u>		<u>75</u>		<u>45</u>	
P17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	
P18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	
P19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	
P20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	
<u>100</u>		<u>60</u>		<u>100</u>		<u>60</u>	

WA # 7248

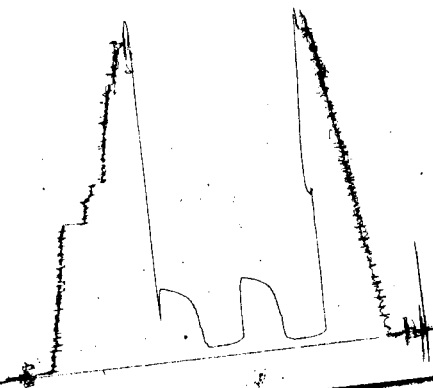
I



13762

St # 7248
0

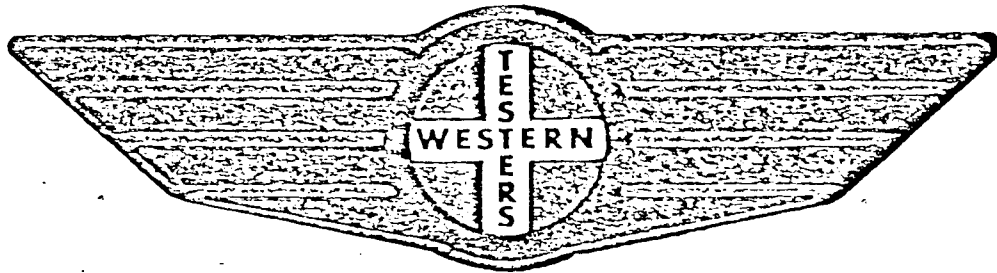
13759



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 4-30-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 3 TEST: 3
ELEVATION (KB): 1827 FORMATION: KANSAS CITY
SECTION: 25 TOWNSHIP: 10S
RANGE: 15W COUNTY: OSBORNE STATE: KANSAS
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

TICKET #7248

LEASE: KOELLING.

GEOLOGIST: M. ENGELBRECHT

FORMATION: KANSAS CITY

TOWNSHIP: 10S

STATE: KANSAS

CLOCK: 12

INTERVAL TEST FROM: 3064 FT TO: 3074 FT TOTAL DEPTH: 3074 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3059 FT SIZE: 6 5/8 IN PACKER DEPTH: 3064 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS & WILLIAMSON #9
MUD TYPE: SALGELSTAR VISCOSITY: 44
WEIGHT: 10.0 WATER LOSS (CC): 12.8
CHLORIDES (P.P.M.): 43000

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

DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2923 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 BLOW; HOSE 1/2" INTO
BUCKET; BLOW REMAINED THROUGHOUT.
FINAL FLOW PERIOD WEAK SURFACE BLOW; BLOW DIED
IN 14 MINUTES; REMAINED THROUGHOUT.

RECOVERED: 30 FT OF: MUD WITH A FEW OIL SPECKS IN TOOL.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 6:40 PM
WELL TEMPERATURE: 100 °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: 30
FINAL HYDROSTATIC PRESSURE

TIME STARTED OFF BOTTOM: 8:40 PM

(A) 1659 PSI
(B) 28 PSI TO (C) 30 PSI
(D) 363 PSI
(E) 41 PSI TO (F) 41 PSI
(G) 355 PSI
(H) 1618 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO

7249

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

WICHITA, KANSAS 67201

Elevation 1827 KB Formation Conglomerate Eff. Pay ☒ Ft.

COMPANY NAME

ADDRESS

LEASE AND WELL NO.

Mail Invoice To

Co. Name

Mail Charts To

District

Great Bend Ks Date 5/2/85

Customer Order No.

RAINS & Williamson Oil Co Inc

435 PAGE COURT 220 W Douglas W, Wichita Ks 67202

Koelling #3

COUNTY Osborne

STATE KANSAS

Sec. 25

Twp. 10S

Rge. 15W

#3 Koelling Same as above

No. Copies Requested 5

Same as above

No. Copies Requested 5

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)

3391

ft.

Recorder Number

13762

Cap.

3925

Bottom Recorder Depth (Outside)

3395

ft.

Recorder Number

13759

Cap.

3900

Below Saddle Recorder Depth

—

ft.

Recorder Number

Cap.

Drilling Contractor

RAINS & Williamson DRG #9

Drill Collar Length

120

I. D.

2.25

Mud Type

SALT GEL - STARCH

Viscosity

48

Weight Pipe Length

I. D.

—

Weight

10.1

Water Loss

10.8

cc.

Drill Pipe Length

3241

I. D.

3.8

Chlorides

43,000

P.P.M.

Test Tool Length

21

ft.

Tool Size

5 1/2 OD

Jars: Make

—

Serial Number

—

Anchor Length

18

ft.

Size

5 1/2 OD

Did Well Flow?

—

Reversed Out

—

Surface Choke Size

3/4

in.

Bottom Choke Size

3/4

Main Hole Size

7 7/8

in.

Tool Joint Size

4 1/2 x H

Blow: 1st opening, Weak Blow Building To a STRONG BLOW OFF Bottom of Bucket in 15 min. Blow Remain Thru-u
2nd opening, FAIR Blow Building To a STRONG BLOW OFF Bottom of Bucket in 10 min, Blow Remain Thru-u

Recovered ft. of

Recovered 570 ft. of

MUDDY SALT WATER

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 28,000

P.P.M. Sample Jars used

2

Remarks:

Time On Location

3:45

A.M.

Time Pick Up Tool

5:20

A.M.

Time Off Location

12:30

A.M.

Time Set Packer(s)

6:25

A.M.

Time Started Off Bottom

9:25

A.M.

Maximum Temperature

108

Initial Hydrostatic Pressure

(A)

1966

P.S.I.

Initial Flow Period

Minutes 30

(B)

57

P.S.I. to (C)

133

P.S.I.

Initial Flow Period

Minutes 30

(D)

1126

P.S.I.

Final Flow Period

Minutes 60

(E)

162

P.S.I. to (F)

286

P.S.I.

Final Closed In Period

Minutes 60

(G)

1116

P.S.I.

Final Hydrostatic Pressure

(H)

1947

P.S.I.

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. 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

Nike Engelbrecht
Signature of Customer or his authorized representative

Western Representative

Ronnie Mitchell 5/2/85

WESTERN TESTING CO., INC.

Pressure Data

Date 5-2-85 Test Ticket No. 7249
 Recorder No. 13762 Capacity 3925 Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1937</u> P.S.I.	Open Tool	<u>30</u> Mins.	<u>30</u> Mins.
B First Initial Flow Pressure	<u>57</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>27</u> Mins.
C First Final Flow Pressure	<u>132</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1128</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>165</u> P.S.I.	Final Closed-in Pressure		
F Second Final Flow Pressure	<u>286</u> P.S.I.			
G Final Closed-in Pressure	<u>1115</u> P.S.I.			
H Final Hydrostatic Mud	<u>1918</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

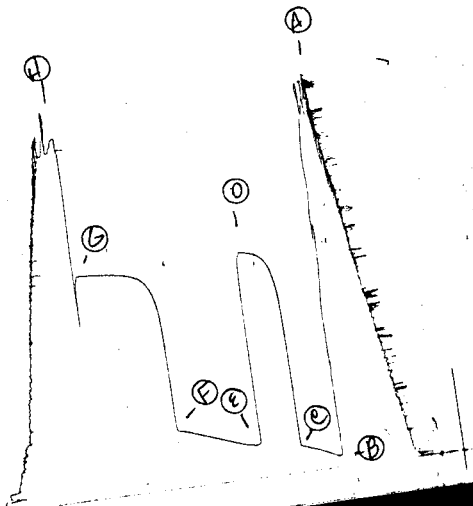
Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 21 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>57</u>	0	<u>132</u>	0	<u>165</u>	0	<u>286</u>
P 2 5	<u>61</u>	3	<u>909</u>	5	<u>165</u>	3	<u>893</u>
P 3 10	<u>78</u>	6	<u>1006</u>	10	<u>170</u>	6	<u>975</u>
P 4 15	<u>94</u>	9	<u>1054</u>	15	<u>181</u>	9	<u>1018</u>
P 5 20	<u>109</u>	12	<u>1084</u>	20	<u>193</u>	12	<u>1045</u>
P 6 25	<u>120</u>	15	<u>1101</u>	25	<u>204</u>	15	<u>1062</u>
P 7 30	<u>132</u>	18	<u>1111</u>	30	<u>218</u>	18	<u>1074</u>
P 8 35		21	<u>1119</u>	35	<u>229</u>	21	<u>1081</u>
P 9 40		24	<u>1125</u>	40	<u>242</u>	24	<u>1088</u>
P10 45		27	<u>1128</u>	45	<u>255</u>	27	<u>1091</u>
P11 50		30		50	<u>265</u>	30	<u>1096</u>
P12 55		33		55	<u>277</u>	33	<u>1100</u>
P13 60		36		60	<u>286</u>	36	<u>1103</u>
P14 65		39		65		39	<u>1106</u>
P15 70		42		70		42	<u>1109</u>
P16 75		45		75		45	<u>1110</u>
P17 80		48		80		48	<u>1111</u>
P18 85		51		85		51	<u>1112</u>
P19 90		54		90		54	<u>1113</u>
P20 95		57		95		57	<u>1114</u>
100		60		100		60	<u>1115</u>

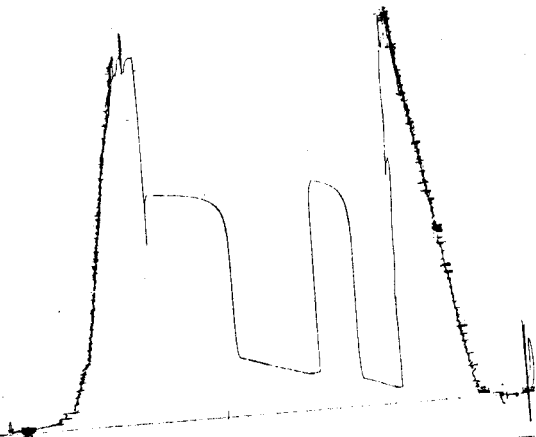
JK # 7249
I



13762

SK # 7249

0

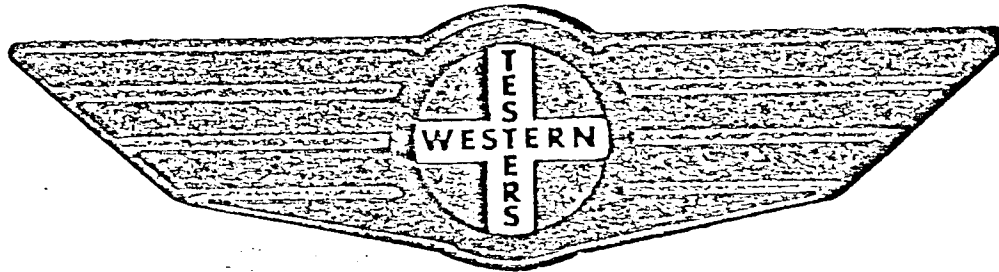


13759

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5-2-85
CUSTOMER: RAINS & WILLIAMSON OIL CO INC
WELL: 3 TEST: 4
ELEVATION (KB): 1827 FORMATION: CONGLOMERATE
SECTION: 25 TOWNSHIP: 10S
RANGE: 15W COUNTY: OSBORNE STATE: KANSAS
GAUGE SN #13762 RANGE: 3925 CLOCK: 12

INTERVAL TEST FROM: 3382 FT TO: 3400 FT TOTAL DEPTH: 3400 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3377 FT SIZE: 6 5/8 IN PACKER DEPTH: 3382 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RAINS&WILLIAMSON #9
MUD TYPE: SALGELSTAR VISCOSITY: 48
WEIGHT: 10.1 WATER LOSS (CC): 10.8
CHLORIDES (P.P.M.): 43000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3241 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 18 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 BUILDING TO A
STRONG BLOW; OFF BOTTOM OF BUCKET IN 15 MIN.;
FINAL FLOW PERIOD FAIR BLOW BUILDING TO A
STRONG BLOW; OFF BOTTOM OF BUCKET IN 10 MIN.;

RECOVERED: 570 FT OF: MUDDY SALT WATER.
RECOVERED: FT OF: CHLORIDES 28000 PPM.
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): 6:25 AM TIME STARTED OFF BOTTOM: 9:25 AM
WELL TEMPERATURE: 108 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1937 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 57 PSI TO (C) 132 PSI
INITIAL CLOSED IN PERIOD MIN: 27 (D) 1128 PSI
FINAL FLOW PERIOD MIN: 60 (E) 165 PSI TO (F) 286 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1115 PSI
FINAL HYDROSTATIC PRESSURE (H) 1918 PSI

