WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 18973

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

Elevation 1806 KB Formation La. Kc. (Hertha) Eff. Pay Ft.

District Pratt Date 6-14-83 Customer Order No.

COMPANY NAME F. G. Holl

ADDRESS 6427 E. Kellogg, Wichita, Ks. 67207

LEASE AND WELL NO. Eckles #1-3 COUNTY Barber STATE Ks. Sec. 3 Twp. 30 Rge. 13W

Mail Invoice To #1-3 Eckles (Co. Name) Same (Address) No. Copies Requested Req

Mail Charts To Same (Address) No. Copies Requested Req

Formation Test No. 2 Interval Tested From 4186 ft. to 4239 ft. Total Depth 4239 ft.

Packer Depth 4181 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4186 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4189 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4193 ft. Recorder Number 13402 Cap. 4025

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Sterling Rig #4 Drill Collar Length 310 I. D. 2.2 in.

Mud Type Chem+Starch Viscosity 61 Weight Pipe Length 455 I. D. 3.2 in.

Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 3400' I. D. 3.8 in.

Chlorides 19,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 53 ft. Size 5 1/2 in.

Did Well Flow? no Reversed Out no 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: WK Building to 4 inches then deplcating to 2 inches. DFP
WK dieing 5 min - Flushed Tool Heading 20 min. FFP.

Recovered 65' ft. of Oil Spotted gassy drlg mud

Recovered ft. of

Recovered ft. of w/20% gas 72% Drlg mud 8% oil

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED
JUN 20 1983

Time On Location 11:00 A.M. / P.M. Time Pick Up Tool 11:45 A.M. / P.M. Time Off Location 5:30 A.M. / P.M.

Time Set Packer(s) 1:15 A.M. / P.M. Time Started Off Bottom 3:15 A.M. / P.M. Maximum Temperature 119°

Initial Hydrostatic Pressure		(A)	2145 2178	P.S.I.	
Initial Flow Period	Minutes 30	(B)	75 71	P.S.I. to (C)	64 54 P.S.I.
Initial Closed In Period	Minutes 30	(D)	64	P.S.I.	
Final Flow Period	Minutes 30	(E)	64 51	P.S.I. to (F)	75 73 P.S.I.
Final Closed In Period	Minutes 30	(G)	75 77	P.S.I.	
Final Hydrostatic Pressure		(H)	2156	P.S.I.	

2160

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 William J. Stobbe
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thank You!

FIELD INVOICE

Open Hole Test	$ 595.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$ 50.00
Insurance	$
Telecopier	$
TOTAL	$ 645.00

WESTERN TESTING CO., INC.
Pressure Data

Date 6-14-83 Test Ticket No. 18973

Recorder No. 1566 Capacity 4300 Location 4189 Ft.

Clock No. — — — — Elevation 1806 Kelly Bushing Well Temperature 119° °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2178 P.S.I.	Open Tool	1:15P M	
B First Initial Flow Pressure	71 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	54 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	59 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	51 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	73 P.S.I.			
G Final Closed-in Pressure	77 P.S.I.			
H Final Hydrostatic Mud	2160 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	71
P 2 5	58
P 3 10	56
P 4 15	54
P 5 20	54
P 6 25	54
P 7 30	54
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	54
3	54
6	54
9	54
12	56
15	57
18	57
21	58
24	58
27	59
30	59
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

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

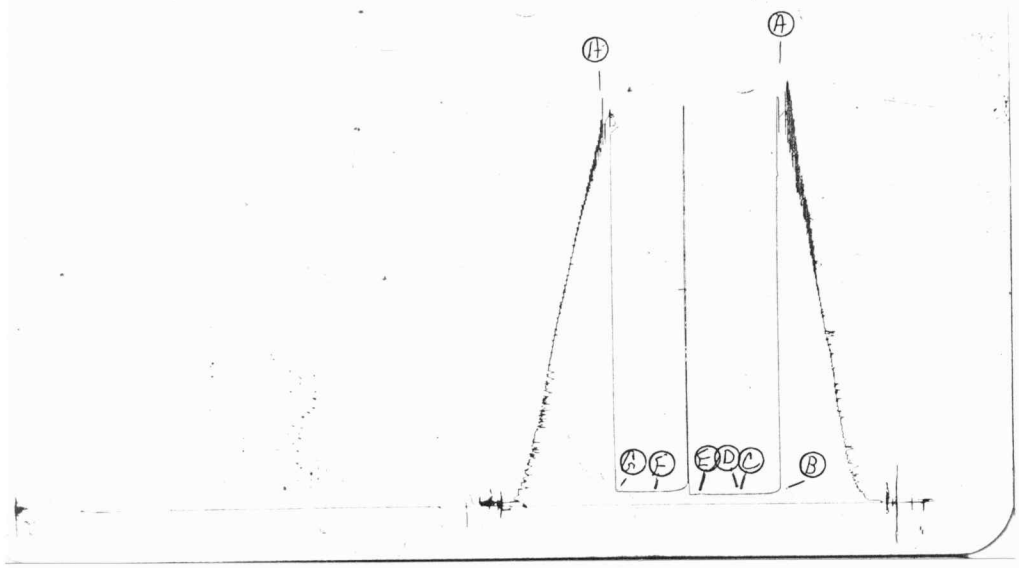
Point Minutes	Press.
0	51
5	51
10	51 flushed tool
15	78
20	73
25	73
30	73
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	73
3	73
6	73
9	73
12	73
15	73
18	73
21	73
24	74
27	76
30	77
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

~~IKT 1893~~

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/14/83 TICKET #18973
CUSTOMER: F G HOLL LEASE: ECKLES
WELL: 1-3 TEST: 2 GEOLOGIST: W J HOBBE
ELEVATION (KB): 1806 FORMATION: LANSING-KC(HERTHA)
SECTION: 3 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 4186 FT TO: 4239 FT TOTAL DEPTH: 4239 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4181 FT SIZE: 6 5/8 IN PACKER DEPTH: 4186 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: CHEM+STAR. VISCOSITY: 61
WEIGHT: 9.2 WATER LOSS (CC): 11.2
CHLORIDES (P.P.M.): 19000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	310 FT	I.D.:	2.2	IN	
WEIGHT PIPE LENGTH:	455 FT	I.D.:	3.2	IN	
DRILL PIPE LENGTH:	3400 FT	I.D.:	3.8	IN	
TEST TOOL LENGTH:	21 FT	TOOL SIZE:	5 1/2	IN	
ANCHOR LENGTH:	53 FT	SIZE:	5 1/2	IN	
SURFACE CHOKE SIZE:	3/4 IN	BOTTOM CHOKE SIZE:	3/4	IN	
MAIN HOLE SIZE:	7 7/8 IN	TOOL JOINT SIZE:	4 1/2	IN	

BLOW: INITIAL FLOW PERIOD WEAK BLOW BUILDING TO 4
INCHES THEN DEPLEATING TO 2 INCHES.
FINAL FLOW PERIOD WEAK BLOW-DIED IN 5 MINUTES.
FLUSHED TOOL-DEAD IN 20 MINUTES.

RECOVERED:	65 FT	OF:	OIL SPOTTED GASSY DRILLING MUD
RECOVERED:	FT	OF:	20% GAS; 72% DRLG MUD; 8% OIL
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): 1:15 PM TIME STARTED OFF BOTTOM: 3:15 PM
WELL TEMPERATURE: 119 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2178	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 71	PSI TO (C) 54	PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 59	PSI	
FINAL FLOW PERIOD	MIN: 30	(E) 51	PSI TO (F) 73	PSI
FINAL CLOSED IN PERIOD	MIN: 30	(G) 77	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2160	PSI	

WESTERN TESTING CO. INC.

PRESSURE DATA

DATE: 6/14/83 TICKET #18973

CUSTOMER: F G HOLL LEASE: ECKLES

WELL: 1-3 TEST: 2 GEOLOGIST: W J HOBBE

ELEVATION (KB): 1806 FORMATION: LANSING-KC(HERTHA)

SECTION: 3 TOWNSHIP: 30S

RANGE: 13W COUNTY: BARBER STATE: KANSAS

GAUGE SN #1566 RANGE: 4300 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2178	PSI
(B) FIRST INITIAL FLOW PRESSURE:	71	PSI
(C) FIRST FINAL FLOW PRESSURE:	54	PSI
(D) INITIAL CLOSED-IN PRESSURE:	59	PSI
(E) SECOND INITIAL FLOW PRESSURE:	51	PSI
(F) SECOND FINAL FLOW PRESSURE:	73	PSI
(G) FINAL CLOSED-IN PRESSURE:	77	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2160	PSI
WELL TEMPERATURE:	119	'F

OPEN TOOL: 1:15 PM

	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

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	71	0	54	0	51	0	73
2	5	58	3	54	5	51	3	73
3	10	56	6	54	10	51	6	73
4	15	54	9	54	15	78	9	73
5	20	54	12	56	20	73	12	73
6	25	54	15	57	25	73	15	73
7	30	54	18	57	30	73	18	73
8			21	58			21	73
9			24	58			24	74
10			27	59			27	76
11			30	59			30	77
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 18974

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

Elevation 1806 KB Formation Miss. Eff. Pay Ft.

District Pratt Date 6-15-83 Customer Order No.

COMPANY NAME F. G. Holl

ADDRESS 6427 E. Kellogg Wichita, Ks. 67207

LEASE AND WELL NO. Eckles #1-3 COUNTY Barber STATE Ks. Sec. 3 Twp. 30 Rge. 13W

Mail Invoice To #1-3 Eckles — No. Copies Requested
Co. Name Address

Mail Charts To — No. Copies Requested
Address

Formation Test No. 3 Interval Tested From 4255 ft. to 4310 ft. Total Depth 4310 ft.

Packer Depth 4250 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4255 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4258 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4262 ft. Recorder Number 13402 Cap. 4025

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Sterling Rig 4 Drill Collar Length 310 I. D. 2.2 in.

Mud Type Starch Viscosity 53 Weight Pipe Length 455 I. D. 3.2 in.

Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 3469' I. D. 3.8 in.

Chlorides 20,000 P.P.M. Test Tool Length 21' ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 55' ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO 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: WK - Building to Good 10 inch IFP
2 inch building to 8 inches Then depleting to 3 inches F.F.P.

Recovered ~~40~~ ft. of ~~B~~

Recovered 300 ft. of gas-in pipe (Very Faint)

Recovered 40' ft. of gas cut Drlg mud

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED
JUN 20 1983

Time On Location 2:30 A.M./P.M. Time Pick Up Tool 5:00 A.M./P.M. Time Off Location 11:30 A.M./P.M.

Time Set Packer(s) 6:30 A.M./P.M. Time Started Off Bottom 9:00 A.M./P.M. Maximum Temperature 121°F

Initial Hydrostatic Pressure		(A) 2188 2243	P.S.I.	
Initial Flow Period	Minutes 30	(B) 75 54	P.S.I. to (C) 5450	P.S.I.
Initial Closed In Period	Minutes 30	(D) 1182	P.S.I.	
Final Flow Period	Minutes 60	(E) 54 52	P.S.I. to (F) 5447	P.S.I.
Final Closed In Period	Minutes 30	(G) 1401 34	P.S.I.	
Final Hydrostatic Pressure		(H) 2168 2232	P.S.I.	

COMPANY TERMS

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

Test Approved By William J. Stobbe
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thanks Again!

FIELD INVOICE 595.00

Open Hole Test	$
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$ 50.00
Insurance	$
Telecopier	$
TOTAL	$ 645.00

WESTERN TESTING CO., INC.
Pressure Data

Date 6-15-83 Test Ticket No. 18974

Recorder No. 1566 Capacity 4300 Location 4258 Ft.

Clock No. — — — — Elevation 806 K.B Well Temperature 121 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2243	P.S.I.	Open Tool	6:30 A M	
B	First Initial Flow Pressure	54	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	50	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	121	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	52	P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	47	P.S.I.			
G	Final Closed-in Pressure	134	P.S.I.			
H	Final Hydrostatic Mud	2232	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 1 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	54
P 2	5	52
P 3	10	50
P 4	15	50
P 5	20	50
P 6	25	50
P 7	30	50
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point	Minutes	Press.
	0	50
	3	50
	6	51
	9	54
	12	62
	15	69
	18	82
	21	93
	24	104
	27	112
	30	121
	33	
	36	
	39	
	42	
	45	
	48	
	51	
	54	
	57	
	60	

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

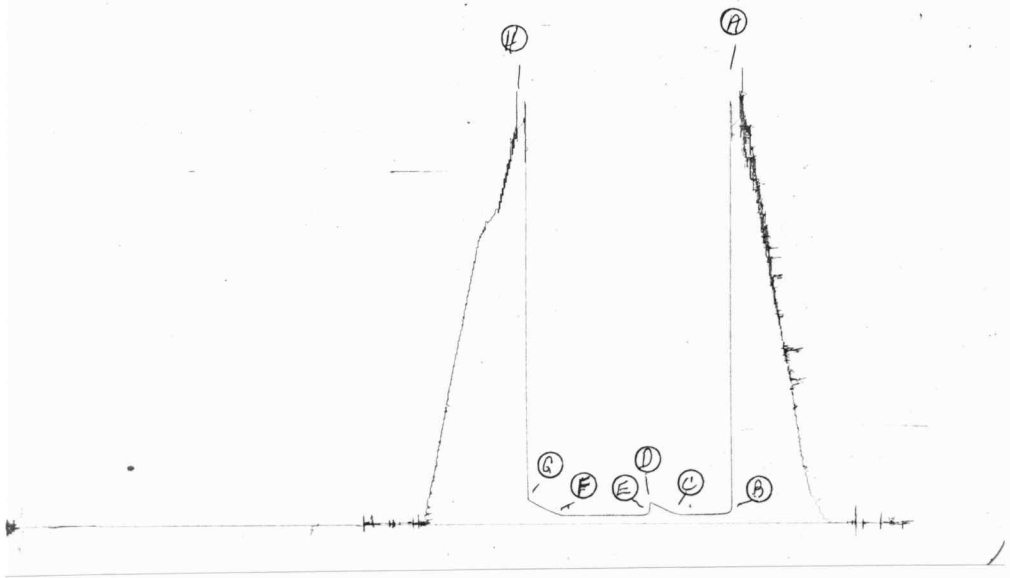
Point	Minutes	Press.
	0	52
	5	47
	10	
	15	
	20	
	25	
	30	
	35	
	40	
	45	
	50	
	55	
	60	47
	65	
	70	
	75	
	80	
	85	
	90	

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

Point	Minutes	Press.
	0	47
	3	47
	6	52
	9	60
	12	69
	15	78
	18	89
	21	102
	24	114
	27	125
	30	134
	33	
	36	
	39	
	42	
	45	
	48	
	51	
	54	
	57	
	60	

IKT 18974

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/15/83 TICKET #18974
CUSTOMER: F G HOLL LEASE: ECKLES
WELL: 1-3 TEST: 3 GEOLOGIST: W J STOBBE
ELEVATION (KB): 1806 FORMATION: MISSISSIPPI
SECTION: 3 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 4255 FT TO: 4310 FT TOTAL DEPTH: 4310 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4250 FT SIZE: 6 5/8 IN PACKER DEPTH: 4255 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: STARCH VISCOSITY: 53
WEIGHT: 9.3 WATER LOSS (CC): 8.8
CHLORIDES (P.P.M.): 20000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 310 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: 455 FT I.D.: 3.2 IN
DRILL PIPE LENGTH: 3469 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 55 FT SIZE: 5 1/2 IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW BUILDING TO
GOOD 10 INCH BLOW.
FINAL FLOW PERIOD 2 INCH BLOW BUILDING TO
8 INCHES THEN DEPLEATING TO 3 INCHES.

RECOVERED: 300 FT OF: GAS IN PIPE (VERY FAINT)
RECOVERED: 40 FT OF: GAS CUT DRILLING MUD
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): 6:30 AM TIME STARTED OFF BOTTOM: 9:00 AM
WELL TEMPERATURE: 121 'F
INITIAL HYDROSTATIC PRESSURE: (A) 2243 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 54 PSI TO (C) 50 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 121 PSI
FINAL FLOW PERIOD MIN: 60 (E) 52 PSI TO (F) 47 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 134 PSI
FINAL HYDROSTATIC PRESSURE (H) 2232 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 6/15/83
CUSTOMER: F G HOLL
WELL: 1-3
ELEVATION (KB): 1806
SECTION: 3
RANGE: 13W
GAUGE SN #1566

TEST: 3

FORMATION: MISSISSIPPI
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 4300

TICKET #18974
LEASE: ECKLES
GEOLOGIST: W J STOBBE
STATE: KANSAS
CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2243	PSI
(B) FIRST INITIAL FLOW PRESSURE:	54	PSI
(C) FIRST FINAL FLOW PRESSURE:	50	PSI
(D) INITIAL CLOSED-IN PRESSURE:	121	PSI
(E) SECOND INITIAL FLOW PRESSURE:	52	PSI
(F) SECOND FINAL FLOW PRESSURE:	47	PSI
(G) FINAL CLOSED-IN PRESSURE:	134	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2232	PSI
WELL TEMPERATURE:	121	'F

OPEN TOOL: 6:30 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	30	MIN
SECOND FLOW PRESSURE:	60	MIN	60	MIN
FINAL CLOSED-IN PRESSURE:	30	MIN	30	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	54	0	50	0	52	0	47
2	5	52	3	50	5	47	3	47
3	10	50	6	51	10	47	6	52
4	15	50	9	54	15	47	9	60
5	20	50	12	62	20	47	12	69
6	25	50	15	69	25	47	15	78
7	30	50	18	82	30	47	18	89
8			21	93	35	47	21	102
9			24	104	40	47	24	114
10			27	112	45	47	27	125
11			30	121	50	47	30	134
12					55	47		
13					60	47		
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 18975

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

Elevation 1806 KB Formation Viola Eff. Pay Ft.

District Pratt Date 6-16-83 Customer Order No.

COMPANY NAME F. G. Holl

ADDRESS 6427 E. Kellogg Wichita, Ks. 67207

LEASE AND WELL NO. Eckles #1-3 COUNTY Barber STATE Ks. Sec. 3 Twp. 30 Rge. 13W

Mail Invoice To #1-3 Eckles (Co. Name) (Address) No. Copies Requested Ray

Mail Charts To (Address) No. Copies Requested Ray

Formation Test No. 4 Interval Tested From 4389 ft. to 4430 ft. Total Depth 4430 ft.

Packer Depth 4384 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4389 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4392 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4396 ft. Recorder Number 3086 Cap. 4500

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Sterling Rig #4 Drill Collar Length 310' I. D. 2.2 in.

Mud Type Dis. - Starch Viscosity 44 Weight Pipe Length 455 I. D. 3.2 in.

Weight 9.5 Water Loss 16.0 cc. Drill Pipe Length 3603' I. D. 3.8 in.

Chlorides 25,000 P.P.M. Test Tool Length 21' ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 41' ft. Size 5 1/2 in.

Did Well Flow? no Reversed Out no 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: STRONG Gas to Surface 37 min F.F.P. See Flow Chart!

Recovered 45' ft. of gassy oily mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

RECEIVED JUN 20 1983

Read Bottom Chart! #3086

Time On Location 3:30 A.M./P.M. Time Pick Up Tool 4:15 A.M./P.M. Time Off Location 10:45 A.M./P.M.

Time Set Packer(s) 5:45 A.M./P.M. Time Started Off Bottom 8:15 A.M./P.M. Maximum Temperature 121°

Initial Hydrostatic Pressure		(A)	2256 2251	P.S.I.	
Initial Flow Period	Minutes 30	(B)	1066	P.S.I. to (C)	7166 P.S.I.
Initial Closed In Period	Minutes 30	(D)	9749 45	P.S.I.	
Final Flow Period	Minutes 60	(E)	9453	P.S.I. to (F)	5953 P.S.I.
Final Closed In Period	Minutes 30	(G)	6396 38	P.S.I.	
Final Hydrostatic Pressure		(H)	2256 2251	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 William J. Hobbe
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thanks Again!

FIELD INVOICE

Open Hole Test	$ 595.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$ 50.00
Telecopier	$
TOTAL	$ 645.00

Phone 316 262-5861

P. O. Box 1599

WICHITA, KANSAS 67201

WESTERN TESTERS

GAS FLOW REPORT

Nº 3680

Date 6-16-83 Ticket 18975 Company F. G. Holl

Well Name and No. Eckles #1-3 Dst No. 4 Interval Tested 4389 - 4430

County Barber State Ks. Sec. 3 Twp. 30 Rg. 13

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
PRE FLOW					
					Gas-to-Surface 37 min F.F.P.
SECOND FLOW					
	PSI				
40	(4-) 5	1/4			20,700 CFD
45	3				15,700 "
50	2				12,700 "
55	1.5				11,020 "
60	1.0				8,950

GAS BOTTLE

Serial No. Date Bottle Filled Date to be Invoiced

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME

Authorized by William J Hobbs

FORM WTC 9

WESTERN TESTING CO., INC.
Pressure Data

Date 6-16-83 Test Ticket No. 18975

Recorder No. 3086 Capacity 4300 Location 4392 Ft.

Clock No. — — — — Elevation 1806 KB Well Temperature 121 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	2251	P.S.I.	Open Tool 5:45 AM	
B	First Initial Flow Pressure	66	P.S.I.	First Flow Pressure 30 Mins.	30 Mins.
C	First Final Flow Pressure	66	P.S.I.	Initial Closed-in Pressure 30 Mins.	30 Mins.
D	Initial Closed-in Pressure	965	P.S.I.	Second Flow Pressure 60 Mins.	60 Mins.
E	Second Initial Flow Pressure	53	P.S.I.	Final Closed-in Pressure 30 Mins.	30 Mins.
F	Second Final Flow Pressure	53	P.S.I.		
G	Final Closed-in Pressure	630	P.S.I.		
H	Final Hydrostatic Mud	2251	P.S.I.		

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	66
P 2 5	
P 3 10	
P 4 15	
P 5 20	
P 6 25	
P 7 30	66
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	66
3	166
6	309
9	427
12	534
15	631
18	701
21	775
24	849
27	911
30	965
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

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

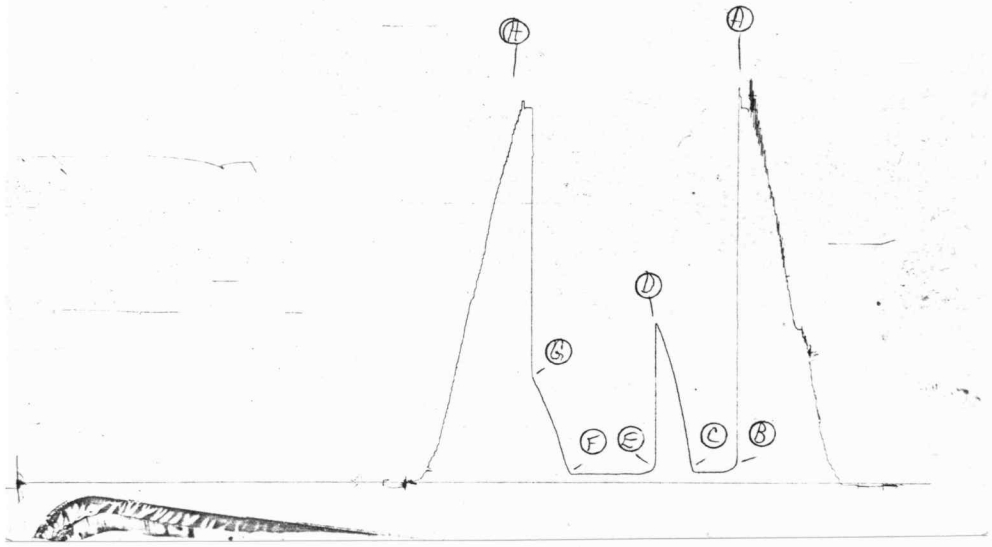
Point Minutes	Press.
0	53
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	
55	
60	53
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	53
3	84
6	166
9	248
12	338
15	396
18	445
21	498
24	549
27	593
30	630
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

WTC - 4

IKT 18995



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/16/83 TICKET #18975
CUSTOMER: F G HOLL LEASE: ECKLES
WELL: 1-3 TEST: 4 GEOLOGIST: W J STOBBE
ELEVATION (KB): 1806 FORMATION: VIOLA
SECTION: 3 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #3086 RANGE: 4500 CLOCK: 12

INTERVAL TEST FROM: 4389 FT TO: 4430 FT TOTAL DEPTH: 4430 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4384 FT SIZE: 6 5/8 IN PACKER DEPTH: 4389 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: DRIS-STAR. VISCOSITY: 44
WEIGHT: 9.5 WATER LOSS (CC): 16.0
CHLORIDES (P.P.M.): 25000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	310 FT	I.D.:	2.2	IN	
WEIGHT PIPE LENGTH:	455 FT	I.D.:	3.2	IN	
DRILL PIPE LENGTH:	3603 FT	I.D.:	3.8	IN	
TEST TOOL LENGTH:	21 FT	TOOL SIZE:	5 1/2	IN	
ANCHOR LENGTH:	41 FT	SIZE:	5 1/2	IN	
SURFACE CHOKE SIZE:	3/4 IN	BOTTOM CHOKE SIZE:	3/4	IN	
MAIN HOLE SIZE:	7 7/8 IN	TOOL JOINT SIZE:	4 1/2	IN	

BLOW: STRONG.
GAS TO SURFACE IN 37 MINUTES ON
FINAL FLOW PERIOD.
SEE ATTACHED GAS SHEET.

RECOVERED: 45 FT OF: GASSY DRILLING 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: READ BOTTOM RECORDER.

TIME SET PACKER(S): 5:45 AM TIME STARTED OFF BOTTOM: 8:15 AM
WELL TEMPERATURE: 121 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2251	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 66	PSI TO (C) 66	PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 965	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 53	PSI TO (F) 53	PSI
FINAL CLOSED IN PERIOD	MIN: 30	(G) 630	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2251	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 6/16/83 TICKET #18975
CUSTOMER: F G HOLL LEASE: ECKLES
WELL: 1-3 TEST: 4 GEOLOGIST: W J STOBBE
ELEVATION (KB): 1806 FORMATION: VIOLA
SECTION: 3 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #3086 RANGE: 4500 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2251	PSI
(B) FIRST INITIAL FLOW PRESSURE:	66	PSI
(C) FIRST FINAL FLOW PRESSURE:	66	PSI
(D) INITIAL CLOSED-IN PRESSURE:	965	PSI
(E) SECOND INITIAL FLOW PRESSURE:	53	PSI
(F) SECOND FINAL FLOW PRESSURE:	53	PSI
(G) FINAL CLOSED-IN PRESSURE:	630	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2251	PSI
WELL TEMPERATURE:	121	'F

OPEN TOOL: 5:45 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	30	MIN
SECOND FLOW PRESSURE:	60	MIN	60	MIN
FINAL CLOSED-IN PRESSURE:	30	MIN	30	MIN

PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	66	0	66	0	53	0	53
2	5	66	3	166	5	53	3	84
3	10	66	6	309	10	53	6	166
4	15	66	9	427	15	53	9	248
5	20	66	12	534	20	53	12	338
6	25	66	15	631	25	53	15	396
7	30	66	18	701	30	53	18	445
8			21	775	35	53	21	498
9			24	849	40	53	24	549
10			27	911	45	53	27	593
11			30	965	50	53	30	630
12					55	53		
13					60	53		
14								
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16								
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29								
30								

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 6/16/83
CUSTOMER: F G HOLL
WELL: 1-3
ELEVATION (KB): 1806
SECTION: 3
RANGE: 13W
GAUGE SN #3086

TEST: 4
FORMATION: VIOLA
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 4500

TICKET #18975
LEASE: ECKLES
GEOLOGIST: W J STOBBE
STATE: KANSAS
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
				PRE FLOW
				SECOND FLOW
37				GAS TO SURFACE
40	MERLA	1/4	5.0 PSIG	20700 CFPD
45		1/4	3.0 PSIG	15700 CFPD
50		1/4	2.0 PSIG	12700 CFPD
55		1/4	1.5 PSIG	11020 CFPD
60		1/4	1.0 PSIG	8950 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: 6/16/83

WESTERN TESTING CO., INC.
FORMATION TESTING TICKET No. 1226

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

Elevation 1806 KB Formation Simpson Sand Eff. Pay Ft.

District Pratt Date 6-17-83 Customer Order No.

COMPANY NAME F. G. Holl

ADDRESS 6427 E. Kellogg Wichita, Ks. 67207

LEASE AND WELL NO. Eckles #1-3 COUNTY Barber STATE Ks. Sec. 3 Twp. 30 Rge. 13

Mail Invoice To #1-3 Eckles (Co. Name) SAME (Address) No. Copies Requested Req

Mail Charts To SAME (Address) No. Copies Requested Req

Formation Test No. 5 Interval Tested From 4497 ft. to 4541 ft. Total Depth 4541 ft.

Packer Depth 4492 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 4497 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4500 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4504 ft. Recorder Number 3086 Cap. 4500

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

Drilling Contractor Sterling Rig #4

Mud Type Starch Viscosity 47

Weight 9.5 Water Loss 14.4 cc.

Chlorides 30,000 P.P.M.

Jars: Make — Serial Number —

Did Well Flow? no Reversed Out no

Drill Collar Length 310' I. D. 2.2 in.

Weight Pipe Length 455' I. D. 3.2 in.

Drill Pipe Length 3711' I. D. 3.8 in.

Test Tool Length 21' ft. Tool Size 5 1/2 in.

Anchor Length 44' ft. Size 5 1/2 in.

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: Gincl Building to Strong FFP
WK Building to Strong in 30 min FFP

Recovered 90 ft. of 68% Drlg mud 3% wtr 29% oil

Recovered 310 ft. of 75% " " 5% " 5% " 15% gas

Recovered 120 ft. of 60% " " 24% " 4% " 12% "

Recovered 285 ft. of 35% " " 49% " 4% " 12% "

Recovered 310 ft. of Muddy wtr w/10% mud 90% wtr.

Chlorides 69,000 P.P.M. Sample Jars used 9 Remarks: Hit Bridges @ 4470 To TD

RECEIVED JUN 20 1983 KCC WICHITA

Time On Location 2:00 A.M./P.M. Time Pick Up Tool 4:30 A.M./P.M. Time Off Location 12:30 A.M./P.M.

Time Set Packer(s) 6:15 A.M./P.M. Time Started Off Bottom 8:45 A.M./P.M. Maximum Temperature 123°

Initial Hydrostatic Pressure		(A)	2351 2384	P.S.I.
Initial Flow Period	Minutes 30	(B)	97 95	P.S.I. to (C) 345 337 P.S.I.
Initial Closed In Period	Minutes 30	(D)	840 839	P.S.I.
Final Flow Period	Minutes 60	(E)	389 396	P.S.I. to (F) 486 491 P.S.I.
Final Closed In Period	Minutes 30	(G)	840 838	P.S.I.
Final Hydrostatic Pressure		(H)	2351 2371	P.S.I.

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

Test Approved By William J. Stobbe
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thanks Again!

FIELD INVOICE

Open Hole Test	$ 595.00
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
Insurance	$ 50.00
Telecopier	$
TOTAL	$ 645.00

WESTERN TESTING CO., INC.

Pressure Data

Date 6-17-83 Test Ticket No. 1226

Recorder No. 1566 Capacity 4300 Location 4500 Ft.

Clock No. — — — — Elevation 1806 K.B. Well Temperature 123 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2384	P.S.I.	Open Tool	6:15A. M	
B	First Initial Flow Pressure	95	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	337	P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	839	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	396	P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	491	P.S.I.			
G	Final Closed-in Pressure	838.	P.S.I.			
H	Final Hydrostatic Mud	2371	P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	95
P 2 5	162
P 3 10	203
P 4 15	242
P 5 20	281
P 6 25	309
P 7 30	337
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	337
3	673
6	819
9	832
12	~~834~~ 833
15	834
18	835
21	836
24	837
27	838
30	839
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

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

Point Minutes	Press.
0	396
5	398
10	407
15	415
20	420
25	424
30	435
35	446
40	454
45	466
50	478
55	485
60	491
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	491
3	815
6	830
9	831
12	832
15	833
18	834
21	835
24	836
27	837
30	838
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/17/83 TICKET #1226
CUSTOMER: F G HOLL LEASE: ECKLES
WELL: 1-3 TEST: 5 GEOLOGIST: W J STOBBE
ELEVATION (KB): 1806 FORMATION: SIMPSON SAND
SECTION: 3 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 4497 FT TO: 4541 FT TOTAL DEPTH: 4541 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4492 FT SIZE: 6 5/8 IN PACKER DEPTH: 4497 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: STARCH VISCOSITY: 47
WEIGHT: 9.5 WATER LOSS (CC): 14.4
CHLORIDES (P.P.M.): 30000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO

DRILL COLLAR LENGTH:	310 FT	I.D.:	2.2	IN	
WEIGHT PIPE LENGTH:	455 FT	I.D.:	3.2	IN	
DRILL PIPE LENGTH:	3711 FT	I.D.:	3.8	IN	
TEST TOOL LENGTH:	21 FT	TOOL SIZE:	5 1/2	IN	
ANCHOR LENGTH:	44 FT	SIZE:	5 1/2	IN	
SURFACE CHOKE SIZE:	3/4 IN	BOTTOM CHOKE SIZE:	3/4	IN	
MAIN HOLE SIZE:	7 7/8 IN	TOOL JOINT SIZE:	4 1/2	IN	

BLOW: INITIAL FLOW PERIOD 6 INCH BLOW BUILING
TO STRONG.
FINAL FLOW PERIOD WEAK BLOW BUILDING TO
STRONG IN 30 MINUTES.

RECOVERED:	90 FT	OF:	68% DRLG MUD; 3% WATER; 29% OIL
RECOVERED:	310 FT	OF:	75% DRLG MUD; 5% WATER; 5% OIL; 15% GAS
RECOVERED:	120 FT	OF:	60% DRLG MUD; 24% WATER; 4% OIL; 12% GAS
RECOVERED:	285 FT	OF:	35% DRLG MUD; 49% WATER; 4% OIL; 12% GAS
RECOVERED:	310 FT	OF:	MUDDY WATER - 10% MUD; 90% WATER
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	
RECOVERED:	FT	OF:	

REMARKS: CHLORIDES 69000 PPM
HIT BRIDGES AT 4470 TO TOTAL DEPTH.

TIME SET PACKER(S): 6:15 AM TIME STARTED OFF BOTTOM: 8:45 AM
WELL TEMPERATURE: 123 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 2384	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 95	PSI TO (C) 337	PSI
INITIAL CLOSED IN PERIOD	MIN: 30	(D) 839	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 396	PSI TO (F) 491	PSI
FINAL CLOSED IN PERIOD	MIN: 30	(G) 838	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 2371	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 6/17/83 TICKET #1226
CUSTOMER: F G HOLL LEASE: ECKLES
WELL: 1-3 TEST: 5 GEOLOGIST: W J STOBBE
ELEVATION (KB): 1806 FORMATION: SIMPSON SAND
SECTION: 3 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2384	PSI
(B) FIRST INITIAL FLOW PRESSURE:	95	PSI
(C) FIRST FINAL FLOW PRESSURE:	337	PSI
(D) INITIAL CLOSED-IN PRESSURE:	839	PSI
(E) SECOND INITIAL FLOW PRESSURE:	396	PSI
(F) SECOND FINAL FLOW PRESSURE:	491	PSI
(G) FINAL CLOSED-IN PRESSURE:	838	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2371	PSI
WELL TEMPERATURE:	123	'F

OPEN TOOL: 6:15 AM

	TIME - GIVEN		TIME - ACTUAL	
FIRST FLOW PRESSURE:	30	MIN	30	MIN
INITIAL CLOSED-IN PRESSURE:	30	MIN	30	MIN
SECOND FLOW PRESSURE:	60	MIN	60	MIN
FINAL CLOSED-IN PRESSURE:	30	MIN	30	MIN

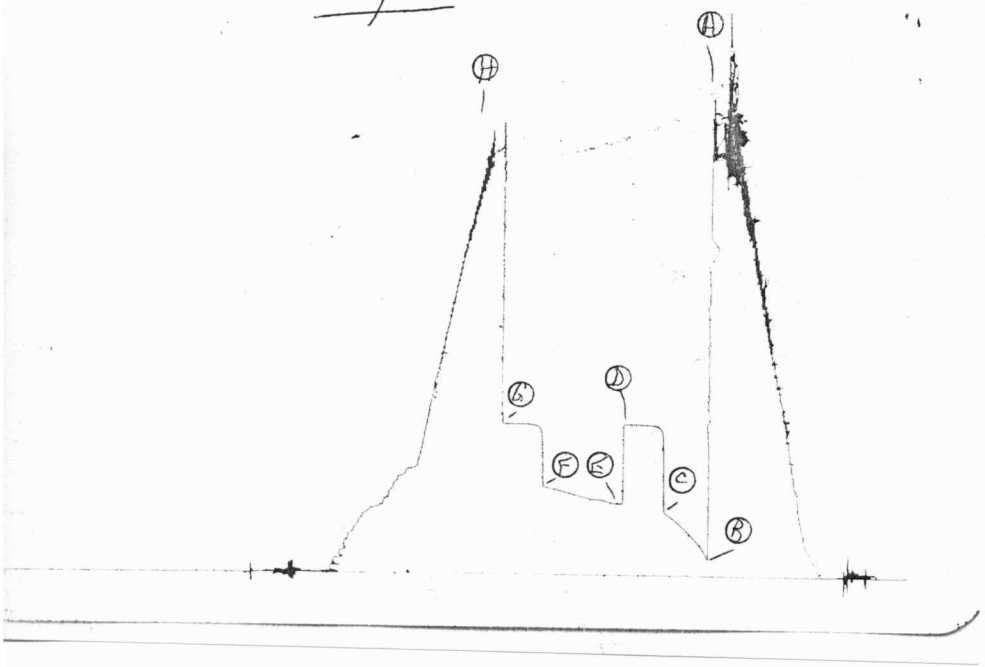
PRESSURE BREAKDOWN

	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
PT	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	95	0	337	0	396	0	491
2	5	162	3	673	5	398	3	815
3	10	203	6	819	10	407	6	830
4	15	242	9	832	15	415	9	831
5	20	281	12	833	20	420	12	832
6	25	309	15	834	25	424	15	833
7	30	337	18	835	30	435	18	834
8			21	836	35	446	21	835
9			24	837	40	454	24	836
10			27	838	45	466	27	837
11			30	839	50	478	30	838
12					55	485		
13					60	491		
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29								
30								

1566

JKT 1226

I



OPEN HOLE TESTING INSURANCE AVAILABLE

Details of Policy:

$35,000 limit per hole
$ 2,000 Fishing limit
$ 2,500 Deductible per hole
Operator pays the deductible.
Deductible applies to total loss including tool and fishing with limits as above.

Premium per test - $50.00 DST No. 1 Test Depth 3928-3965

☒ I want the open hole insurance.

☐ I do not want the open hole insurance.

Legal Description of Location Eckles #1-3 3-30-13 Barber Co. Ks.

MD
Salesman Signature

F.G. Holl
Company Name

6-13-83
Date

William J. Stobbe
Customer Signature

WESTERN TESTING CO., INC.
FORMATION TESTING

OK

TICKET № 18972

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

Elevation 1806 KB Formation Lans. - K.C. Eff. Pay Ft.

District Pratt Date 6-13-83 Customer Order No.

COMPANY NAME F. G. Holl

ADDRESS 6427 East Kellogg 67207

LEASE AND WELL NO. Eckles #1-3 COUNTY Barber STATE Ks. Sec. 3 Twp. 30 Rge. 13 W

Mail Invoice To #1-3 ECKLES No. Copies Requested
Co. Name Address

Mail Charts To No. Copies Requested
Address

Formation Test No. 1 Interval Tested From 3928 ft. to 3965 ft. Total Depth 3965 ft.

Packer Depth 3923 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3928 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3931 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 3935 ft. Recorder Number 13402 Cap. 4025

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

Drilling Contractor Sterling Rig #4

Mud Type chem. Viscosity 55

Weight 9.2 Water Loss 13.6 cc.

Chlorides 13,000 P.P.M.

Jars: Make — Serial Number —

Did Well Flow? no Reversed Out no Yes

Drill Collar Length 310' I. D. 2.2 in.

Weight Pipe Length 455' I. D. 3.2 in.

Drill Pipe Length 3142' I. D. 3.8 in.

Test Tool Length 21 ft. Tool Size 5 1/2 in.

Anchor Length 37 ft. Size 5 1/2 in.

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: 2 inch Slowly Building to Good 10 inch Blow IFP AND FFP.

Recovered 850' ft. of SW & Very Few Oil Specks - 139,000 chlor.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time On Location 7:45 A.M. P.M. Time Pick Up Tool 9:15 A.M. P.M. Time Off Location 3:45 A.M. P.M.

Time Set Packer(s) 10:30 A.M. P.M. Time Started Off Bottom 1:00 A.M. P.M. Maximum Temperature 122°

Initial Hydrostatic Pressure		(A)	1960	P.S.I.	
Initial Flow Period	Minutes 30	(B)	75	P.S.I. to (C)	216 P.S.I.
Initial Closed In Period	Minutes 30	(D)	1377	P.S.I.	
Final Flow Period	Minutes 60	(E)	302	P.S.I. to (F)	432 P.S.I.
Final Closed In Period	Minutes 30	(G)	1355	P.S.I.	
Final Hydrostatic Pressure		(H)	1993	P.S.I.	

RECEIVED
JUN 14 1983

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 William J. Stobbe
Signature of Customer or his authorized representative

Western Representative Mike Rogers Thank You!

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	
Telecopier	
TOTAL	

WESTERN TESTING CO., INC.

Pressure Data

Date 6-13 Test Ticket No. 18972

Recorder No. 1566 Capacity 4300 Location 3931 Ft.

Clock No. — — — — Elevation 1806 KB Well Temperature 122 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1961	P.S.I.
B	First Initial Flow Pressure	83	P.S.I.
C	First Final Flow Pressure	225	P.S.I.
D	Initial Closed-in Pressure	1388	P.S.I.
E	Second Initial Flow Pressure	296	P.S.I.
F	Second Final Flow Pressure	435	P.S.I.
G	Final Closed-in Pressure	1348	P.S.I.
H	Final Hydrostatic Mud	1961	P.S.I.

	Time Given	Time Computed
Open Tool	10:30 AM	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	33 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	30 Mins.	30 Mins.

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	83
P 2	5	90
P 3	10	114
P 4	15	148
P 5	20	176
P 6	25	200
P 7	30	225
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point Minutes	Press.
0	225
3	959
6	1137
9	1218
12	1268
15	1302
18	1326
21	1344
24	1361
27	1374
30	1385
33	1388
36	
39	
42	
45	
48	
51	
54	
57	
60	

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

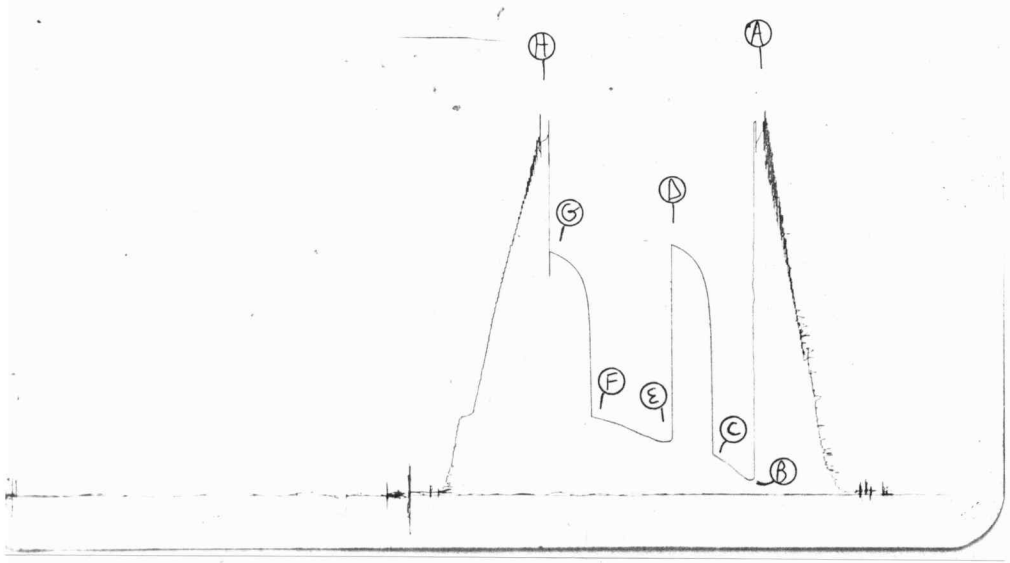
Point Minutes	Press.
0	296
5	296
10	300
15	316
20	329
25	346
30	362
35	381
40	396
45	407
50	418
55	427
60	435
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	435
3	1101
6	1182
9	1227
12	1258
15	1283
18	1302
21	1315
24	1330
27	1339
30	1348
33	
36	
39	
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60	

TKT #18972

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WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 6/13/83 TICKET #18972
CUSTOMER: F G HOLL LEASE: ECKLES
WELL: 1-3 TEST: 1 GEOLOGIST: W J STOBBE
ELEVATION (KB): 1806 FORMATION: LANSING-KC
SECTION: 3 TOWNSHIP: 30S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 3928 FT TO: 3965 FT TOTAL DEPTH: 3965 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3923 FT SIZE: 6 5/8 IN PACKER DEPTH: 3928 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: CHEMICAL VISCOSITY: 55
WEIGHT: 9.2 WATER LOSS (CC): 13.6
CHLORIDES (P.P.M.): 13000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? YES

DRILL COLLAR LENGTH:	310 FT	I.D.:	2.2	IN	
WEIGHT PIPE LENGTH:	455 FT	I.D.:	3.2	IN	
DRILL PIPE LENGTH:	3142 FT	I.D.:	3.8	IN	
TEST TOOL LENGTH:	21 FT	TOOL SIZE:	5 1/2	IN	
ANCHOR LENGTH:	37 FT	SIZE:	5 1/2	IN	
SURFACE CHOKE SIZE:	3/4 IN	BOTTOM CHOKE SIZE:	3/4	IN	
MAIN HOLE SIZE:	7 7/8 IN	TOOL JOINT SIZE:	4 1/2 XH	IN	

BLOW: 2 INCH BLOW SLOWLY BUILDING TO GOOD 10
INCH BLOW ON INITIAL FLOW PERIOD.
2 INCH BLOW SLOWLY BUILDING TO GOOD 10
INCH BLOW ON FINAL FLOW PERIOD.

RECOVERED: 850 FT OF: SALTWATER WITH A VERY FEW OIL SPECKS
RECOVERED: FT OF: CHLORIDES 139000 PPM
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): 10:30 AM TIME STARTED OFF BOTTOM: 1:00 PM
WELL TEMPERATURE: 122 'F

INITIAL HYDROSTATIC PRESSURE:		(A) 1961	PSI	
INITIAL FLOW PERIOD	MIN: 30	(B) 83	PSI TO (C) 225	PSI
INITIAL CLOSED IN PERIOD	MIN: 33	(D) 1388	PSI	
FINAL FLOW PERIOD	MIN: 60	(E) 296	PSI TO (F) 435	PSI
FINAL CLOSED IN PERIOD	MIN: 30	(G) 1348	PSI	
FINAL HYDROSTATIC PRESSURE		(H) 1961	PSI	

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 6/13/83
CUSTOMER: F G HOLL
WELL: 1-3
ELEVATION (KB): 1806
SECTION: 3
RANGE: 13W
GAUGE SN #1566

TEST: 1

TICKET #18972
LEASE: ECKLES
GEOLOGIST: W J STOBBE
FORMATION: LANSING-KC
TOWNSHIP: 30S
COUNTY: BARBER
STATE: KANSAS
RANGE: 4300
CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	1961	PSI
(B) FIRST INITIAL FLOW PRESSURE:	83	PSI
(C) FIRST FINAL FLOW PRESSURE:	225	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1388	PSI
(E) SECOND INITIAL FLOW PRESSURE:	296	PSI
(F) SECOND FINAL FLOW PRESSURE:	435	PSI
(G) FINAL CLOSED-IN PRESSURE:	1348	PSI
(H) FINAL HYDROSTATIC PRESSURE:	1961	PSI
WELL TEMPERATURE:	122	'F

OPEN TOOL: 10:30 AM

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	30 MIN	33 MIN
SECOND FLOW PRESSURE:	60 MIN	60 MIN
FINAL CLOSED-IN PRESSURE:	30 MIN	30 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW MIN	FIRST FLOW PRESSURE	INITIAL SHUT-IN MIN	INITIAL SHUT-IN PRESSURE	SECOND FLOW MIN	SECOND FLOW PRESSURE	FINAL SHUT-IN MIN	FINAL SHUT-IN PRESSURE
1	0	83	0	225	0	296	0	435
2	5	90	3	959	5	296	3	1101
3	10	114	6	1137	10	300	6	1182
4	15	148	9	1218	15	316	9	1227
5	20	176	12	1268	20	329	12	1258
6	25	200	15	1302	25	346	15	1283
7	30	225	18	1326	30	362	18	1302
8			21	1344	35	381	21	1315
9			24	1361	40	396	24	1330
10			27	1374	45	407	27	1339
11			30	1385	50	418	30	1348
12			33	1388	55	427		
13					60	435		
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