



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

Nº

4339

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

WICHITA, KANSAS 67201

Elevation

Formation Simpson Sand Eff. Pay Ft.

District

Date

Customer Order No.

COMPANY NAME

ADDRESS

LEASE AND WELL NO.

COUNTY

STATE

Sec.

Twp.

Rge.

Mail Invoice To

Co. Name

Address

No. Copies Requested

Mail Charts To

Address

No. Copies Requested

Formation Test No.

Interval Tested From

ft. to

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)

ft.

Recorder Number

Cap.

Bottom Recorder Depth (Outside)

ft.

Recorder Number

Cap.

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

Mud Type

Viscosity

Weight

Water Loss

cc.

Chlorides

P.P.M.

Jars: Make

Serial Number

Did Well Flow?

Reversed Out

Drill Collar Length

I. D.

in.

Weight Pipe Length

I. D.

in.

Drill Pipe Length

I. D.

in.

Test Tool Length

ft.

Tool Size

in.

Anchor Length

ft.

Size

in.

Surface Choke Size

in.

Bottom Choke Size

in.

Main Hole Size

in.

Tool Joint Size

in.

Blow: Strong blow in ten minutes of the initial flow period.
Strong blow on final flow, didn't maintain two inches flow line

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Recovered

ft. of

Chlorides

P.P.M. Sample Jars used

Remarks:

Time On Location

10:30

A.M.

Time Pick Up Tool

12:00

A.M.

Time Off Location

10:00

A.M.

Time Set Packer(s)

2:45

A.M.

Time Started Off Bottom

5:45

A.M.

Maximum Temperature

124°C

Initial Hydrostatic Pressure

(A)

2167

P.S.I.

Initial Flow Period

Minutes

30

(B)

145

P.S.I. to (C)

291

P.S.I.

Initial Closed In Period

Minutes

60

(D)

1287

P.S.I.

Final Flow Period

Minutes

30

(E)

1287

P.S.I. to (F)

395

P.S.I.

Final Closed In Period

Minutes

60

(G)

1256

P.S.I.

Final Hydrostatic Pressure

(H)

2104

P.S.I.

COMPANY TERMS

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

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

Test Approved By

Signature of Customer or his authorized representative

Western Representative

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

\$

WESTERN TESTING CO., INC.

Pressure Data

Date: 3-18-84 Recorder No. 2606 Capacity _____ Location _____ Ft
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Test Ticket No. 4339

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2160</u> P.S.I.		
B First Initial Flow Pressure	<u>140</u> P.S.I.		
C First Final Flow Pressure	<u>278</u> P.S.I.		
D Initial Closed-in Pressure	<u>1274</u> P.S.I.		
E Second Initial Flow Pressure	<u>358</u> P.S.I.		
F Second Final Flow Pressure	<u>399</u> P.S.I.		
G Final Closed-in Pressure	<u>1254</u> P.S.I.		
H Final Hydrostatic Mud	<u>2106</u> P.S.I.		

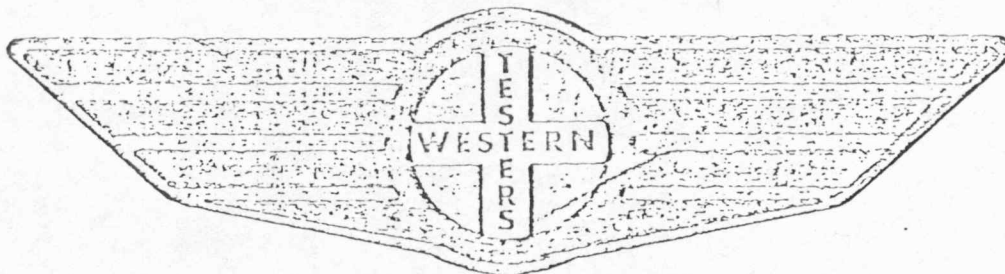
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>22</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>140</u>	0	<u>278</u>	0	<u>358</u>	0	<u>399</u>
P 2 5	<u>140</u>	3	<u>832</u>	5	<u>358</u>	3	<u>918</u>
P 3 10	<u>166</u>	6	<u>900</u>	10	<u>358</u>	6	<u>1026</u>
P 4 15	<u>200</u>	9	<u>1081</u>	15	<u>374</u>	9	<u>1076</u>
P 5 20	<u>237</u>	12	<u>1122</u>	20	<u>384</u>	12	<u>1114</u>
P 6 25	<u>257</u>	15	<u>1152</u>	25	<u>391</u>	15	<u>1140</u>
P 7 30	<u>278</u>	18	<u>1172</u>	30	<u>399</u>	18	<u>1160</u>
P 8 35		21	<u>1188</u>	35		21	<u>1176</u>
P 9 40		24	<u>1205</u>	40		24	<u>1190</u>
P10 45		27	<u>1214</u>	45		27	<u>1201</u>
P11 50		30	<u>1223</u>	50		30	<u>1209</u>
P12 55		33	<u>1232</u>	55		33	<u>1214</u>
P13 60		36	<u>1238</u>	60		36	<u>1222</u>
P14		39	<u>1245</u>	65		39	<u>1228</u>
P15		42	<u>1250</u>	70		42	<u>1234</u>
P16		45	<u>1255</u>	75		45	<u>1238</u>
P17		48	<u>1260</u>	80		48	<u>1242</u>
P18		51	<u>1264</u>	85		51	<u>1246</u>
P19		54	<u>1268</u>	90		54	<u>1249</u>
P20		57	<u>1270</u>			57	<u>1252</u>
		60	<u>1272</u>			60	<u>1254</u>
			<u>1274</u>				

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/18/84
CUSTOMER: W.L. KIRKMAN INC.
WELL: 2 TEST: 1
ELEVATION (KB): 0 FORMATION: SIMPSON
SECTION: 18 TOWNSHIP: 31S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4460 FT TO: 4515 FT TOTAL DEPTH: 4515 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4455 FT SIZE: 6 3/4 IN PACKER DEPTH: 4460 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN
MUD TYPE: STARCH VISCOSITY: 47
WEIGHT: 8.9 WATER LOSS (CC): 15.6
CHLORIDES (P.P.M.): 21000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 563 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3877 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 55 FT SIZE: 5 1/2 O.D. IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 FH IN

BLOW: STRONG BLOW IN 10 MINUTES IN THE
INITIAL FLOW PERIOD. FINAL FLOW
PERIOD STRONG BLOW BUT DID NOT MAINTAIN
2" IN FLOW LINE.

RECOVERED: 240 FT OF: GAS & OIL CUT MUD.
RECOVERED: FT OF: 5% OIL; 55% MUD; 40% GAS.
RECOVERED: 120 FT OF: GAS & OIL CUT WATERY MUD.
RECOVERED: FT OF: 3% OIL; 27% GAS; 25% WTR; 45% MUD.
RECOVERED: 610 FT OF: GASSY WATER.
RECOVERED: FT OF: CHLORIDES 68000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

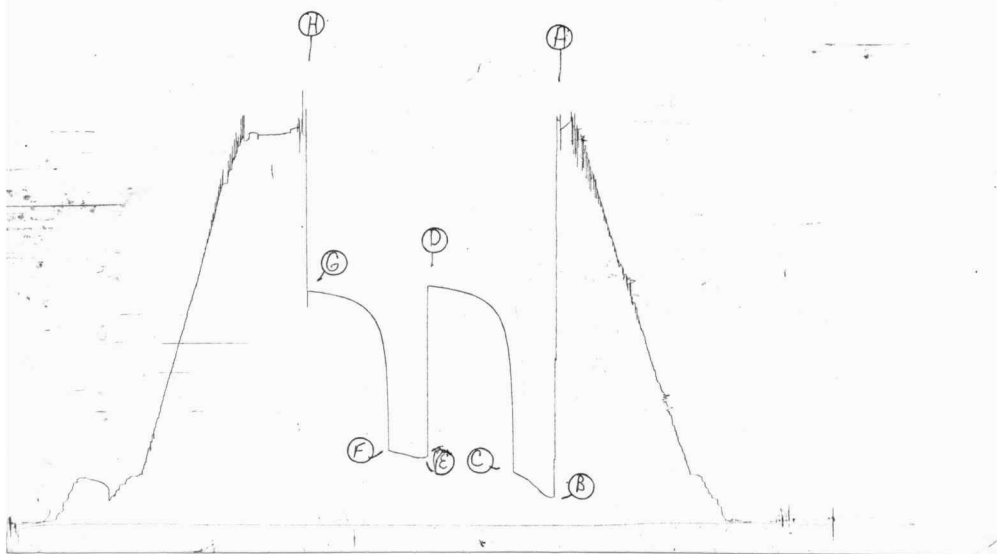
REMARKS:

TIME SET PACKER(S): 2:45 A.M. TIME STARTED OFF BOTTOM: 5:45 A.M.
WELL TEMPERATURE: 124 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2160 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 140 PSI TO (C) 278 PSI
INITIAL CLOSED IN PERIOD MIN: 63 (D) 1274 PSI
FINAL FLOW PERIOD MIN: 30 (E) 358 PSI TO (F) 399 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1254 PSI
FINAL HYDROSTATIC PRESSURE (H) 2106 PSI

#2606 TKT# 4339

Dst#1

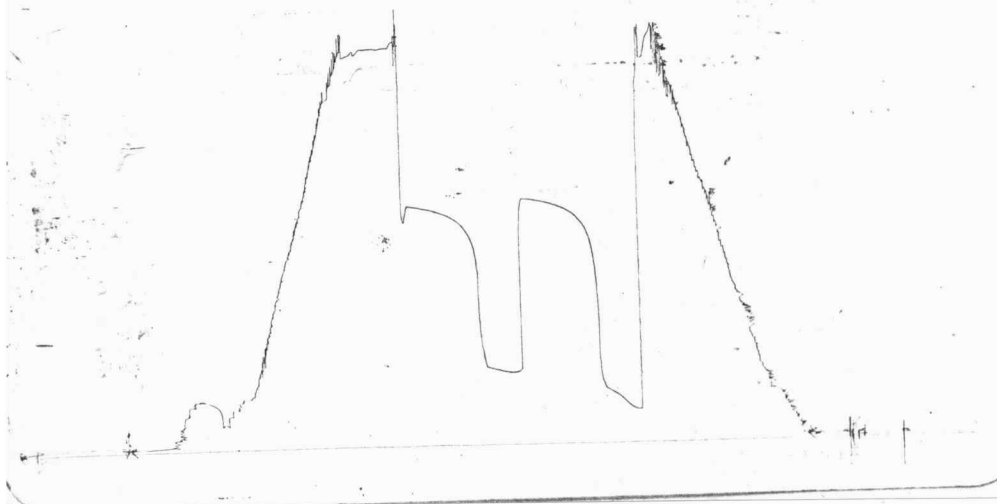
I



13267 TKT# 4339

Dst#1

O





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº

4340

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

WICHITA, KANSAS 67201

Elevation 1649 RB Formation Arbuckle Eff. Pay _____ Ft.

District PRATT Date 3-20-84 Customer Order No. _____

COMPANY NAME W. L. Kirkman

ADDRESS P.O. Box 18611, Wichita KS 67218

LEASE AND WELL NO. 2 PRATT COUNTY Barber STATE Kansas Sec. 18 Twp. 31S Rge. 13W

Mail Invoice To #2 PRATT Same Address No. Copies Requested Reg

Co. Name _____ Address _____ No. Copies Requested Reg

Mail Charts To Same Address _____ No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 4509 ft. to 4565 ft. Total Depth 4565 ft.

Packer Depth 4504 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4509 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4512 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4515 ft. Recorder Number 13267 Cap. 4050

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

Drilling Contractor Aldebaran Rig 4 Drill Collar Length 563 I. D. 2 1/4 in.

Mud Type Starch Viscosity 51 Weight Pipe Length _____ I. D. _____ in.

Weight 8.9 Water Loss 12.0 cc. Drill Pipe Length 3924 I. D. 3.8 in.

Chlorides NC P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number _____ Anchor Length 56 (3107-25) Size 4" - 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 7/8 in. Tool Joint Size 4 1/2 x 11 in.

Blow: Strong blow 23 minutes into initial flow

Strong blow on final flow No gas to surf

Recovered 700 ft. of gas in pipe

Recovered _____ ft. of _____

Recovered 626 ft. of frothy oil

Recovered _____ ft. of _____

Recovered _____ ft. of _____

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

31 feet of Drill pipe in anchor.

Time On Location 7:30 A.M. Time Pick Up Tool 8:30 A.M. Time Off Location _____ A.M.

Time Set Packer(s) 11:00 A.M. Time Started Off Bottom 2:00 A.M. Maximum Temperature 120°F

Initial Hydrostatic Pressure _____ (A) 2188 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 73 P.S.I. to (C) 135 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 1663 P.S.I.

Final Flow Period _____ Minutes 30 (E) 208 P.S.I. to (F) 228 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 1663 P.S.I.

Final Hydrostatic Pressure _____ (H) 2135 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 Christopher Moore
Signature of Customer or his authorized representative

Western Representative Red Britt 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 \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 595.00

WESTERN TESTING CO., INC.

Pressure Data

Date 3-20-84

Test Ticket No. 4340

Recorder No. 2606 Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2195</u> P.S.I.		
B First Initial Flow Pressure	<u>93</u> P.S.I.	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>137</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1679</u> P.S.I.	<u>30</u> Mins.	<u>25</u> Mins.
E Second Initial Flow Pressure	<u>214</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>229</u> P.S.I.		
G Final Closed-in Pressure	1670 <u>1671</u> P.S.I.		
H Final Hydrostatic Mud	<u>2141</u> P.S.I.		

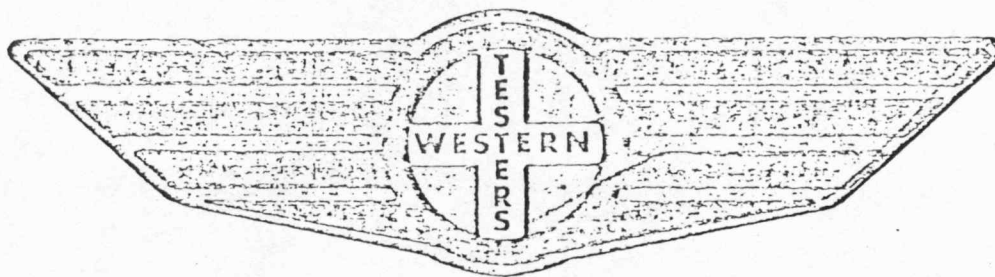
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>21</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>93</u>	0	<u>137</u>	0	<u>214</u>	0	<u>229</u>
P 2 5	<u>93</u>	3	<u>1111</u>	5	<u>1</u>	3	<u>241</u>
P 3 10	<u>99</u>	6	<u>1550</u>	10	<u>214</u>	6	<u>1339</u>
P 4 15	<u>113</u>	9	<u>1597</u>	15	<u>225</u>	9	<u>1559</u>
P 5 20	<u>128</u>	12	<u>1615</u>	20	<u>229</u>	12	<u>1597</u>
P 6 25	<u>137</u>	15	<u>1626</u>	25	<u>229</u>	15	<u>1608</u>
P 7 30		18	<u>1638</u>	30		18	1619 <u>1620</u>
P 8 35		21	<u>1646</u>	35		21	<u>1628</u>
P 9 40		24	<u>1653</u>	40		24	<u>1636</u>
P 10 45		27	<u>1659</u>	45		27	<u>1643</u>
P 11 50		30	<u>1662</u>	50		30	<u>1647</u>
P 12 55		33	<u>1664</u>	55		33	<u>1651</u>
P 13 60		36	<u>1666</u>	60		36	<u>1654</u>
P 14		39	<u>1668</u>	65		39	<u>1657</u>
P 15		42	<u>1670</u>	70		42	<u>1660</u>
P 16		45	<u>1672</u>	75		45	<u>1663</u>
P 17		48	<u>1674</u>	80		48	<u>1665</u>
P 18		51	<u>1676</u>	85		51	<u>1667</u>
P 19		54	<u>1677</u>	90		54	<u>1669</u>
P 20		57	<u>1678</u>			57	<u>1670</u>
		60	<u>1679</u>			60	1672 <u>1671</u>

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 3/20/84
CUSTOMER: W.L. KIRKMAN INC.
WELL: 2 TEST: 2
ELEVATION (KB): 1649 FORMATION: ARBUCKLE
SECTION: 18 TOWNSHIP: 31S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #2606 RANGE: 4150 CLOCK: 12

TICKET #4340
LEASE: PRATT
GEOLOGIST: MOORE

INTERVAL TEST FROM: 4509 FT TO: 4565 FT TOTAL DEPTH: 4565 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4504 FT SIZE: 6 3/4 IN PACKER DEPTH: 4509 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ALDEBARAN DRLG
MUD TYPE: STARCH VISCOSITY: 51
WEIGHT: 8.9 WATER LOSS (CC): 12.0
CHLORIDES (P.P.M.):
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 563 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3924 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 56 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 FH IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW
IN 23 MINUTES.
FINAL FLOW PERIOD STRONG BLOW.
NO GAS TO SURFACE.

RECOVERED: 700 FT OF: GAS ABOVE FLUID.
RECOVERED: 626 FT OF: FROGGY OIL.
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: 31 FEET OF DRILL PIPE IN ANCHOR.

TIME SET PACKER(S): 11:00 AM TIME STARTED OFF BOTTOM: 2:00 PM
WELL TEMPERATURE: 120 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2195 PSI
INITIAL FLOW PERIOD MIN: 25 (B) 93 PSI TO (C) 137 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1679 PSI
FINAL FLOW PERIOD MIN: 25 (E) 214 PSI TO (F) 229 PSI
FINAL CLOSED IN PERIOD MIN: 60 (G) 1671 PSI
FINAL HYDROSTATIC PRESSURE (H) 2141 PSI

WESTERN TESTING CO. INC.
PRESSURE DATA

DATE: 3/20/84		TICKET #4340
CUSTOMER: W.L. KIRKMAN INC.		LEASE: PRATT
WELL: 2	TEST: 2	GEOLOGIST: MOORE
ELEVATION (KB): 1649		FORMATION: ARBUCKLE
SECTION: 18		TOWNSHIP: 31S
RANGE: 13W	COUNTY: BARBER	STATE: KANSAS
GAUGE SN #2606	RANGE: 4150	CLOCK: 12

(A)	INITIAL HYDROSTATIC PRESSURE:	2195	PSI
(B)	FIRST INITIAL FLOW PRESSURE:	93	PSI
(C)	FIRST FINAL FLOW PRESSURE:	137	PSI
(D)	INITIAL CLOSED-IN PRESSURE:	1679	PSI
(E)	SECOND INITIAL FLOW PRESSURE:	214	PSI
(F)	SECOND FINAL FLOW PRESSURE:	229	PSI
(G)	FINAL CLOSED-IN PRESSURE:	1671	PSI
(H)	FINAL HYDROSTATIC PRESSURE:	2141	PSI
WELL TEMPERATURE:		120	'F
OPEN TOOL: 11:00 AM			

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	25 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	30 MIN	25 MIN
FINAL CLOSED-IN PRESSURE:	60 MIN	60 MIN

PRESSURE BREAKDOWN

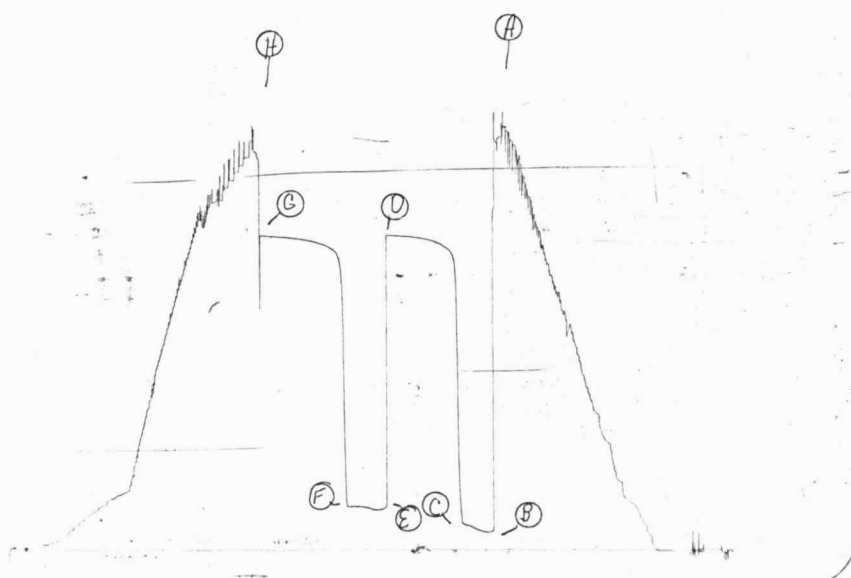
PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	93	0	137	0	214	0	229
2	5	93	3	1111	5	214	3	241
3	10	99	6	1550	10	214	6	1339
4	15	113	9	1597	15	225	9	1559
5	20	128	12	1615	20	229	12	1597
6	25	137	15	1626	25	229	15	1608
7			18	1638			18	1619
8			21	1646			21	1628
9			24	1653			24	1636
10			27	1659			27	1643
11			30	1662			30	1647
12			33	1664			33	1651
13			36	1666			36	1654
14			39	1668			39	1657
15			42	1670			42	1660
16			45	1672			45	1663
17			48	1674			48	1665
18			51	1676			51	1667
19			54	1677			54	1669
20			57	1678			57	1670
21			60	1679			60	1671

22
23
24
25
26
27
28
29
30

2606 DST#2

TKT#4340

I



13267 DST#2

TKT#4340

O

