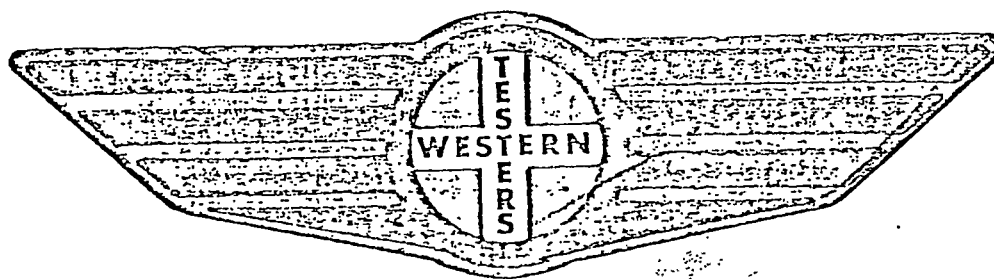


FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

— P.O. Box 1599

— Phone (316) 262-5861

Company

PICKRELL DRILLING COMPANY Lease and Well No.

#1 "C" BORNHOLDT

Sec.

7

Twp.

31S

Rge.

6W

Test No.

1

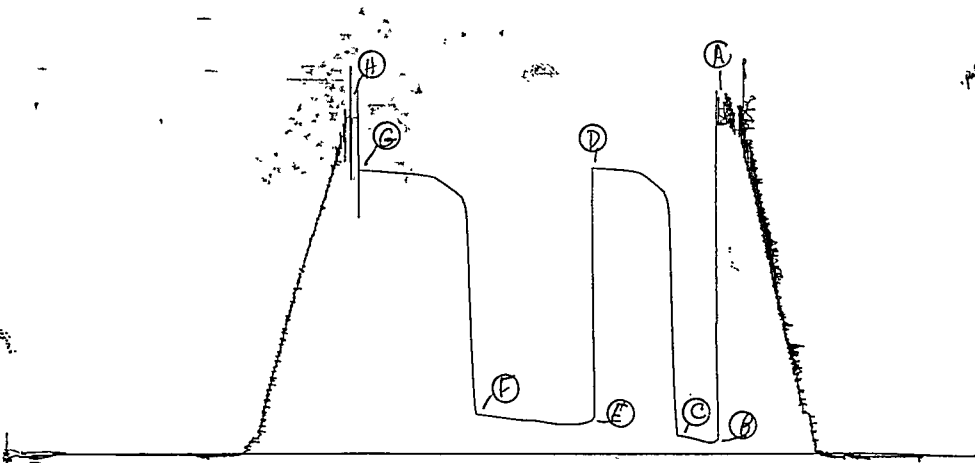
Date

2/8/84

TKT # 5432
I

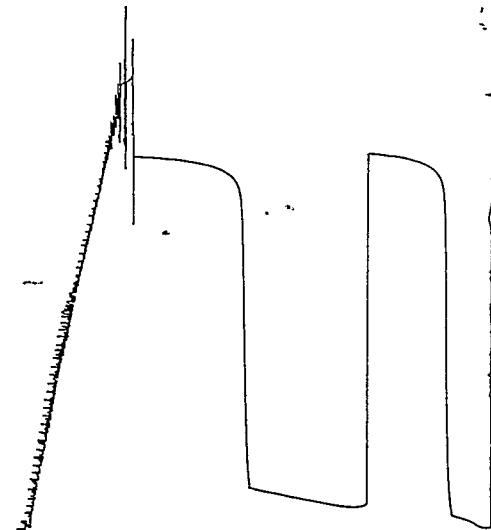
DST #1
2605

5432



TKT # 5432

0



5432

DSO #1

3474

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/8/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 1 TEST: 1
ELEVATION (KB): 1504 FORMATION: KANSAS CITY
SECTION: 7 TOWNSHIP: 31S
RANGE: 6W COUNTY: HARPER STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 3862 FT TO: 3894 FT TOTAL DEPTH: 3894 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3862 FT SIZE: 6 3/4 IN PACKER DEPTH: 3857 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL #10
MUD TYPE: PREMIX VISCOSITY: 41
WEIGHT: 9.2 WATER LOSS (CC): N/A
CHLORIDES (P.P.M.): 17000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT?
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2662 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 32 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 X.H. IN

BLOW: WEAK BLOW FAIR FIRST FLOW.
FAIR THROUGHOUT SECOND FLOW.

RECOVERED: 120	FT	OF: GAS ABOVE FLUID
RECOVERED: 3	FT	OF: FREE OIL
RECOVERED: 392	FT	OF: MUDDY SALT WATER
RECOVERED:	FT	OF: CHLORIDES 87000 P.P.M.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS:

TIME SET PACKER(S): 12:15 A.M. TIME STARTED OFF BOTTOM: 4:45 A.M.
WELL TEMPERATURE: 134 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1825 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 55 PSI TO (C) 96 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1514 PSI
FINAL FLOW PERIOD MIN: 90 (E) 159 PSI TO (F) 219 PSI
FINAL CLOSED IN PERIOD MIN: 90 (G) 1513 PSI
FINAL HYDROSTATIC PRESSURE (H) 1790 PSI

410

TICKET #5432

LEASE: "C" BORNHOLDT

TEST: 1

GEOLOGIST: P. STUBBS

FORMATION: KANSAS CITY

TOWNSHIP: 31S

COUNTY: HARPER

STATE: KANSAS

RANGE: 4150

CLOCK: 12

PSI

PSI

PSI

PSI

PSI

PSI

PSI

PSI

'F

TIME - GIVEN TIME - ACTUAL

MIN 60 MIN

4 MIN 90 MIN

MIN 90 MIN

PT
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

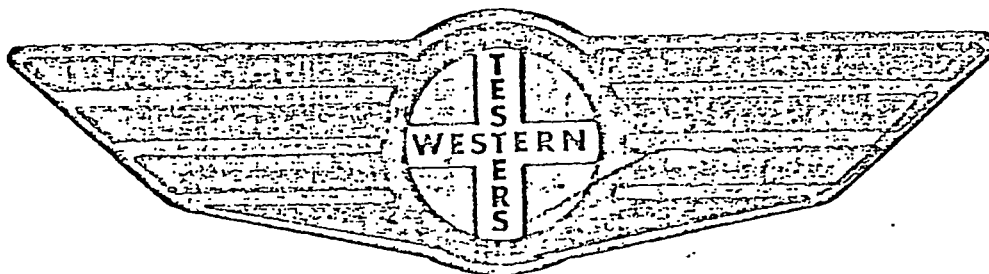
46
PRESSURE BREAKDOWN - CONT. TICKET #5432

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1513
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77								
78								
79								
80								
81								
82								
83								
84								
85								
86								
87								
88								
89								

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

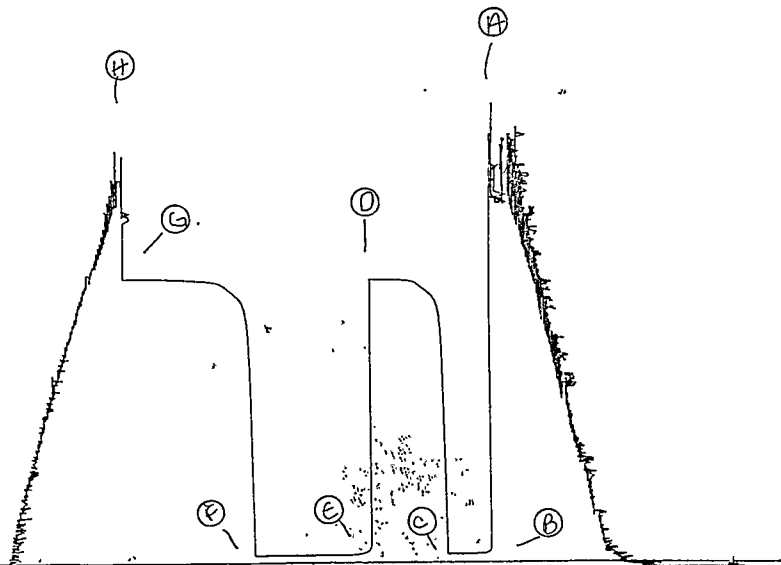
Phone (316) 262-5861

Company PICKRELL DRILLING COMPANY Lease and Well No. #1 "C" BORNHOLDT Sec. 7 Twp. 31S Rge. 6W Test No. 2 Date 2/10/84

HC# 5433

2605
DSF# 2

I.

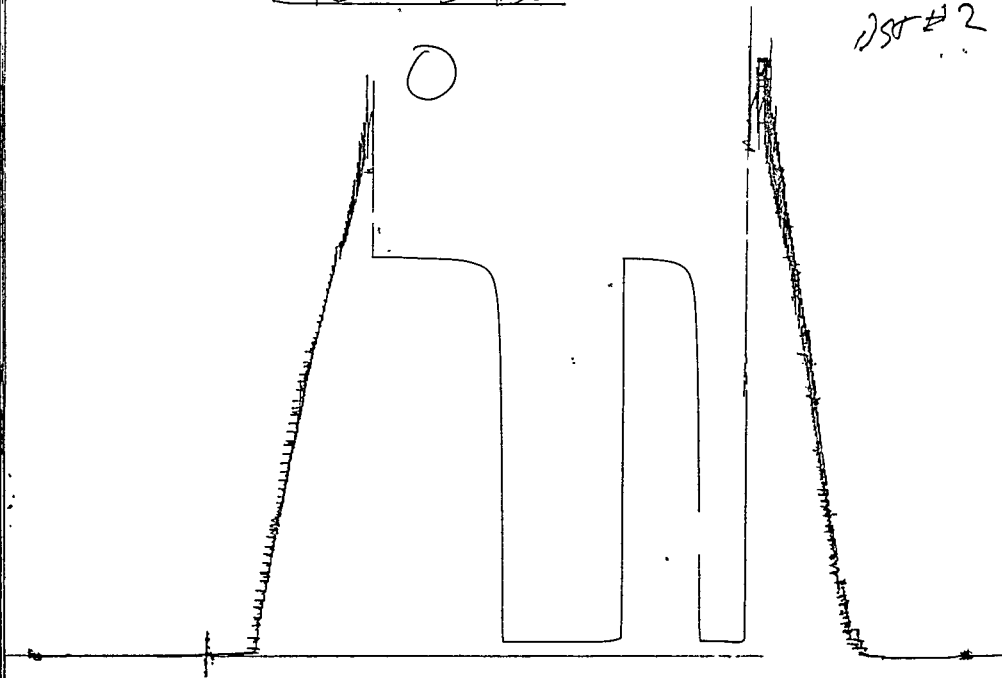


tick# 5433

3474

250#2

0



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/10/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 1 TEST: 2
ELEVATION (KB): 1504 FORMATION: MISSISSIPPI
SECTION: 7 TOWNSHIP: 31S
RANGE: 6W COUNTY: HARPER STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

TICKET #5433

LEASE: "C" BORNHOLDT

GEOLOGIST: STUBBS

FORMATION: MISSISSIPPI

TOWNSHIP: 31S

STATE: KANSAS

CLOCK: 12

INTERVAL TEST FROM: 4316 FT TO: 4327 FT TOTAL DEPTH: 4327 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4316 FT SIZE: 6 3/4 IN Packer DEPTH: 4311 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRILLING
MUD TYPE: CHEMICAL VISCOSITY: 44
WEIGHT: 9.2 WATER LOSS (CC): 14.5
CHLORIDES (P.P.M.): 18000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? GAS REVERSED OUT? NO
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4116 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 11 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: GOOD BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 15 MINUTES.
SEE ATTACHED SHEET FOR GAS MEASUREMENTS.

RECOVERED: 75 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:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 10:00 PM TIME STARTED OFF BOTTOM: 2:30 AM
WELL TEMPERATURE: 143 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2144 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 44 PSI TO (C) 44 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1525 PSI
FINAL FLOW PERIOD MIN: 85 (E) 36 PSI TO (F) 36 PSI
FINAL CLOSED IN PERIOD MIN: 96 (G) 1531 PSI
FINAL HYDROSTATIC PRESSURE (H) 2121 PSI

[illegible]

PRESSURE BREAKDOWN - CONT. TICKET #5433

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1530
32							93	1531
33							96	1531
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77								
78								
79								
80								
81								
82								
83								
84								
85								
86								
87								
88								
89								

WESTERN TESTING CO., INC.
GAS FLOW REPORT

DATE: 2/10/84

TICKET #5433

CUSTOMER: PICKRELL DRILLING COMPANY

LEASE: "C" BORNHOLDT

WELL: 1

TEST: 2

GEOLOGIST: STUBBS

ELEVATION (KB): 1504

FORMATION: MISSISSIPPI

SECTION: 7

TOWNSHIP: 31S

RANGE: 6W

COUNTY: HARPER

STATE: KANSAS

GAUGE SN #2605

RANGE: 4150

CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
---------------------	-------------	-----------------	-------------------	------------------

PRE FLOW

20	MERLA	1	15" OFWTR	101000 CFPD
30			15" OFWTR	101000 CFPD

SECOND FLOW

10	MERLA	1	26" OFWTR	132000 CFPD
20			24" OFWTR	126000 CFPD
30			24" OFWTR	126000 CFPD
40			24" OFWTR	126000 CFPD
50			26" OFWTR	132000 CFPD
60			26" OFWTR	132000 CFPD
70			26" OFWTR	132000 CFPD
80			26" OFWTR	132000 CFPD
90			26" OFWTR	132000 CFPD

GAS BOTTLE SN #:

DATE BOTTLE FILLED:

DATE TO BE INVOICED:

WESTERN TESTING CO., INC.

Pressure Data

Date: 2-10-84 Test Ticket No. 5433
 Recorder No. 2605 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2144</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>44</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	
C First Final Flow Pressure	<u>44</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	
D Initial Closed-in Pressure	<u>7525</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	
E Second Initial Flow Pressure	<u>36</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	
F Second Final Flow Pressure	<u>36</u> P.S.I.			
G Final Closed-in Pressure	<u>1531</u> P.S.I.			
H Final Hydrostatic Mud	<u>2121</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In <u>33</u>	
Breakdown: <u>7</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>33</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>44</u>	0	<u>44</u>	0	<u>36</u>	0	<u>36</u>
P 2 5		3	<u>568</u>	5	<u>36</u>	3	<u>616</u>
P 3 10		6	<u>1169</u>	10	<u>36</u>	6	<u>1170</u>
P 4 15		9	<u>1374</u>	15	<u>36</u>	9	<u>1348</u>
P 5 20		12	<u>1422</u>	20		12	<u>1406</u>
P 6 25		15	<u>1448</u>	25		15	<u>1429</u>
P 7 30	<u>44</u>	18	<u>1469</u>	30		18 <u>1454</u>	<u>1465</u>
P 8 35		21	<u>1483</u>	35		21	<u>1470</u>
P 9 40		24	<u>1498</u>	40		24	<u>1488</u>
P10 45		27	<u>1570</u>	45		27	<u>1500</u>
P11 50		30	<u>1519</u>	50		30	<u>1508</u>
P12 55		33	<u>1520</u>	55		33	<u>1513</u>
P13 60		36	<u>1521</u>	60		36	<u>1515</u>
P14		39	<u>1522</u>	65		39	<u>1517</u>
P15		42	<u>1522</u>	70		42	<u>1519</u>
P16		45	<u>1523</u>	75		45	<u>1521</u>
P17		48	<u>1523</u>	80		48	<u>1523</u>
P18		51	<u>1524</u>	85	<u>36</u>	51	<u>1524</u>
P19		54	<u>1524</u>			54	<u>1525</u>
P20		57	<u>1525</u>			57	<u>1526</u>
		60	<u>1525</u>			60	<u>1527</u>

over

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. _____

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud _____ P.S.I.	Open Tool _____ M _____		
B First Initial Flow Pressure _____ P.S.I.	First Flow Pressure _____ Mins. _____ Mins.		
C First Final Flow Pressure _____ P.S.I.	Initial Closed-in Pressure _____ Mins. _____ Mins.		
D Initial Closed-in Pressure _____ P.S.I.	Second Flow Pressure _____ Mins. _____ Mins.		
E Second Initial Flow Pressure _____ P.S.I.	Final Closed-in Pressure _____ Mins. _____ Mins.		
F Second Final Flow Pressure _____ P.S.I.			
G Final Closed-in Pressure _____ P.S.I.			
H Final Hydrostatic Mud _____ P.S.I.			

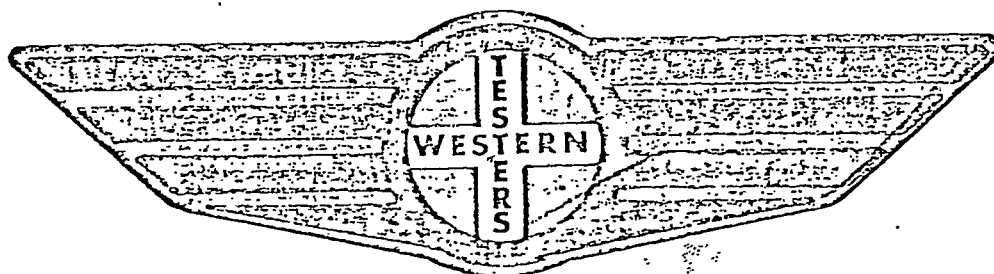
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 _____	_____	63 _____	_____	_____	_____	63 _____	1527
P 2 _____	_____	66 _____	_____	_____	_____	66 _____	1528
P 3 _____	_____	69 _____	_____	_____	_____	69 _____	1528
P 4 _____	_____	72 _____	_____	_____	_____	72 _____	1528
P 5 _____	_____	75 _____	_____	_____	_____	75 _____	1529
P 6 _____	_____	78 _____	_____	_____	_____	78 _____	1529
P 7 _____	_____	81 _____	_____	_____	_____	81 _____	1529
P 8 _____	_____	84 _____	_____	_____	_____	84 _____	1530
P 9 _____	_____	87 _____	_____	_____	_____	87 _____	✓
P10 _____	_____	90 _____	_____	_____	_____	90 _____	1530
P11 _____	_____	93 _____	_____	_____	_____	93 _____	1531
P12 _____	_____	96 _____	_____	_____	_____	96 _____	1531
P13 _____	_____	99 _____	_____	_____	_____	99 _____	_____
P14 _____	_____	102 _____	_____	_____	_____	102 _____	_____
P15 _____	_____	105 _____	_____	_____	_____	105 _____	_____
P16 _____	_____	108 _____	_____	_____	_____	108 _____	_____
P17 _____	_____	111 _____	_____	_____	_____	111 _____	_____
P18 _____	_____	114 _____	_____	_____	_____	114 _____	_____
P19 _____	_____	117 _____	_____	_____	_____	117 _____	_____
P20 _____	_____	120 _____	_____	_____	_____	120 _____	_____

FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company

PICKRELL DRILLING COMPANY

Lease and Well No.

#1 "C" BORNHOLDT

Sec. 7

Twp. 31S

Rge. 6W

Test No.

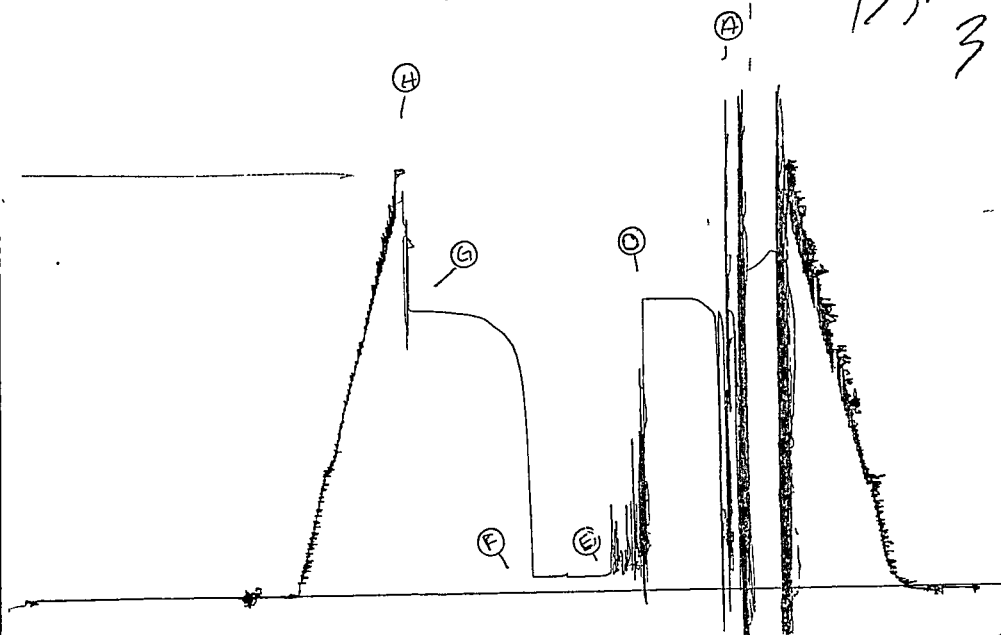
3

Date 2/11/84

tick # 5434

I

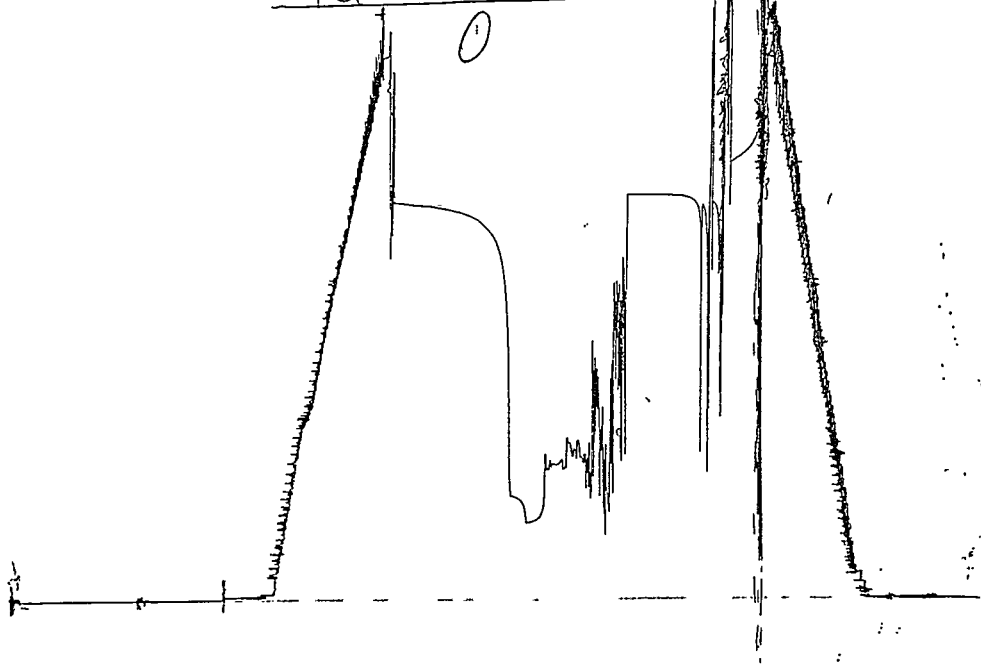
2605
125th
3



TLC # 5434

①

34A4
3



WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 2/11/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 1 TEST: 3
ELEVATION (KB): 1504 FORMATION: MISSISSIPPI
SECTION: 7 TOWNSHIP: 31S
RANGE: 6W COUNTY: HARPER STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 4328 FT TO: 4337 FT TOTAL DEPTH: 4337 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4328 FT SIZE: 6 3/4 IN Packer DEPTH: 4323 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN Packer DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: PICKRELL DRLLG
MUD TYPE: PREMIX VISCOSITY: 44
WEIGHT: 9.2 WATER LOSS (CC): 14.5
CHLORIDES (P.P.M.): 18000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT?
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4128 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 9 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. DIED IN 15
MINUTES. FLUSHED TOOL. WEAK BLOW FOR 5 MINUTES.
FLUSHED TOOL AGAIN. WEAK BLOW.
FINAL FLOW PERIOD GOOD BLOW.

RECOVERED: 120 FT OF: WATERY MUD WITH TRACE OF OIL.
RECOVERED: 120 FT OF: MUDDY SALT WATER.
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: SLID TOOL 8 FEET.
GAS TO SURFACE IN 60 MINUTES.
SEE ATTACHED SHEET FOR GAS MEASUREMENTS.
PLUGGING ACTION ON BOTH FLOW PERIODS.

TIME SET PACKER(S): 1:15 TIME STARTED OFF BOTTOM:
WELL TEMPERATURE: 0 F
INITIAL HYDROSTATIC PRESSURE: (A) 2117 PSI
INITIAL FLOW PERIOD MIN: 45 (B) 1814 PSI TO (C) 248 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1569 PSI
FINAL FLOW PERIOD MIN: 85 (E) 72 PSI TO (F) 80 PSI
FINAL CLOSED IN PERIOD MIN: 90 (G) 1522 PSI
FINAL HYDROSTATIC PRESSURE (H) 2098 PSI

TICKET #5434

LEASE: "C" BORNHOLDT

TEST: 3 4

GEOLOGIST: STUBBS

FORMATION: MISSISSIPPI

TOWNSHIP: 31S

COUNTY: HARPER

STATE: KANSAS

RANGE: 4150

CLOCK: 12

PSI

PSI

PSI

PSI

PSI

PSI

PSI

PSI

'F

OPEN TOOL: 1:15

TIME - GIVEN TIME - ACTUAL

FIRST FLOW PRESSURE: 45 MIN 45 MIN

INITIAL CLOSED-IN PRESSURE: 60 MIN 60 MIN

SECOND FLOW PRESSURE: 90 MIN 85 MIN

FINAL CLOSED-IN PRESSURE: 90 MIN 90 MIN

WIN

[illegible]

PRESSURE BREAKDOWN - CONT. TICKET #5434

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1522
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77								
78								
79								
80								
81								
82								
83								
84								
85								
86								
87								
88								
89								

WESTERN TESTING CO. INC.
GAS FLOW REPORT

DATE: 2/11/84
CUSTOMER: PICKRELL DRILLING COMPANY
WELL: 1
ELEVATION (KB): 1504
SECTION: 7
RANGE: 6W
GAUGE SN #2605

TEST: 3
FORMATION: MISSISSIPPI
TOWNSHIP: 31S
COUNTY: HARPER
RANGE: 4150

TICKET #5434
LEASE: "C" BORNHOLDT
GEOLOGIST: STUBBS
STATE: KANSAS
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
---------------------	-------------	-----------------	-------------------	------------------

PRE FLOW

SECOND FLOW

60	MERLA	1/2	16" OFWTR	25100 CFPD
70			14" OFWTR	23700 CFPD
80			12" OFWTR	21900 CFPD
90			12" OFWTR	21900 CFPD

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: