



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 20130

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

Elevation 3099 KB Formation Pleasanton Eff. Pay Ft.

District GREAT Bend Date 11-21-93 Customer Order No.

COMPANY NAME Pickrell Drilling Company, Inc.

ADDRESS 110 N. MARKET, Suite 205 WICHITA, Ks. 67202

LEASE AND WELL NO. Buehler "A" #1 COUNTY SCOTT STATE KS Sec. 10 Twp. 19S Rge. 24W

Mail Invoice To SAME Co. Name #1 Buehler Address A No. Copies Requested Reg

Mail Charts To SAME #1 Buehler Address A No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 4425 ft. to 4485 ft. Total Depth 4485 ft.

Packer Depth 4420 ft. Size 658 in. Packer Depth ft. Size in.

Packer Depth 4425 ft. Size 658 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4447 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 4450 ft. Recorder Number 13550 Cap. 4175

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Pickrell Drilling rig 10 Drill Collar Length 150 I. D. 2.2 in.

Mud Type Chemical Viscosity 42 Weight Pipe Length I. D. in.

Weight 9.2 Water Loss 8 cc. Drill Pipe Length 4247 4255 I. D. 3.8 in.

Chlorides 7800 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 60 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 x 4 in.

Blow: IF - WEAK building TO A STRONG BLOW IN 3 min

FF - WEAK building TO A STRONG BLOW IN 8 min

Recovered 1175 ft. of WATER

Recovered ft. of

Recovered ft. of w/show of oil on top 35'

Recovered ft. of

Recovered ft. of

Chlorides 24000 P.P.M. Sample Jars used 2 Remarks:

Time On Location 9:45 A.M. Time Pick Up Tool 10:40 A.M. Time Off Location A.M.

Time Set Packer(s) 12:45 P.M. Time Started Off Bottom 5:15 P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure (A) 2139 P.S.I.

Initial Flow Period Minutes 30 (B) 156 P.S.I. to (C) 281 P.S.I.

Initial Closed In Period Minutes 60 (D) 904 P.S.I.

Final Flow Period Minutes 90 (E) 325 P.S.I. to (F) 541 P.S.I.

Final Closed In Period Minutes 90 (G) 997 P.S.I.

Final Hydrostatic Pressure (H) 2108 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 Bill Kluwer Signature of Customer or his authorized representative

Western Representative Ray Schwager Thank you

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 11-21-92 Test Ticket No. 10420
 Recorder No. 10420 Capacity _____ Location _____ Ft
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2167</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure _____ P.S.I.	First Flow Pressure	_____ Mins.	_____ Min.
C First Final Flow Pressure _____ P.S.I.	Initial Closed-in Pressure	_____ Mins.	_____ Min.
D Initial Closed-in Pressure _____ P.S.I.	Second Flow Pressure	_____ Mins.	_____ Min.
E Second Initial Flow Pressure _____ P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Min.
F Second Final Flow Pressure _____ P.S.I.			
G Final Closed-in Pressure _____ P.S.I.			
H Final Hydrostatic Mud <u>2129</u> 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 <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	135	0	500	0	581	0	557
P 2 5	188	3	437	5	381	3	595
P 3 10	214	6	490	10	391	6	622
P 4 15	254	9	538	15	403	9	655
P 5 20	257	12	578	20	418	12	682
P 6 25	277	15	605	25	419	15	700
P 7 30	300	18	648	30	442	18	732
P 8 35		21	676	35	454	21	750
P 9 40		24	701	40	464	24	760
P10 45		27	724	45	476	27	779
P11 50		30	747	50	485	30	792
P12 55		33	776	55	494	33	809
P13 60		36	794	60	501	36	824
P14 65		39	810	65	509	39	839
P15 70		42	829	70	520	42	848
P16 75		45	849	75	528	45	860
P17 80		48	866	80	536	48	873
P18 85		51	881	85	546	51	884
P19 90		54	896	90	551	54	895
P20 95		57	908	95	557	57	905
100		60	918	100		60	917

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 10130

Recorder No. _____ Capacity _____ Location _____ Ft.

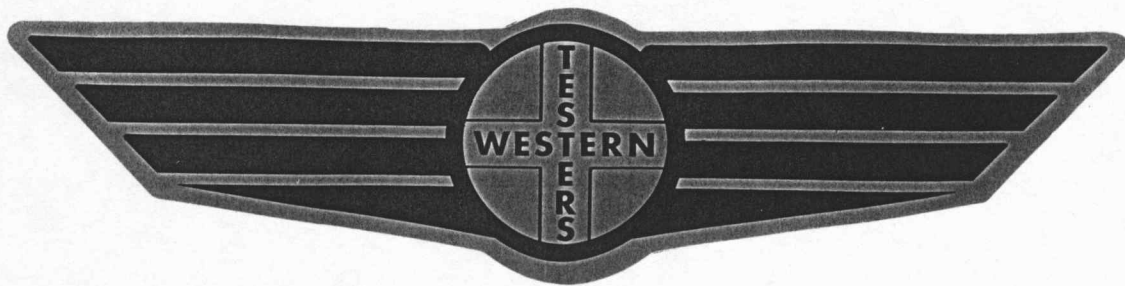
Clock No. _____ Elevation _____ Well Temperature _____ °F

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 1 105		63		105		63	925
P 2 110		66		110		66	934
P 3 115		69		115		69	943
P 4 120		72		120		72	955
P 5 125		75		125		75	964
P 6 130		78		130		78	972
P 7 135		81		135		81	979
P 8 140		84		140		84	987
P 9 145		87		145		87	992
P10 150		90		150		90	1001
P11 155		93		155		93	1004
P12 160		96		160		96	
P13 165		99		165		99	
P14 170		102		170		102	
P15 175		105		175		105	
P16 180		108		180		108	
P17 185		111		185		111	
P18 190		114		190		114	
P19 195		117		195		117	
P20 200		120		200		120	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY PICKRELL DRILLING CO., INC., LEASE & WELL NO.

#1 BUEHLER "A" SEC. 10 TWP. 19S RGE. 34W TEST NO. 1 DATE 11-21-93

DST REPORT

GENERAL INFORMATION

DATE : 11/21/93
CUSTOMER : PICKRELL DRILLING CO. INC
WELL : #1 TEST: 1
ELEVATION: 3099 K.B.
SECTION : 10
RANGE : 34W COUNTY: SCOTT
GAUGE SN#: 10270 RANGE : 4150

TICKET : 20130
LEASE : BUEHLER A
GEOLOGIST: BILL KLAVER
FORMATION: PLEASANTON
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4425.00 ft TO: 4485.00 ft TVD: 4485.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4447.0 ft 4450.0 ft
TEMPERATURE: 117.0

DRILL COLLAR LENGTH:	150.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	4255.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	60.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	4420.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4425.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : PICKRELL DRLG. #10
MUD TYPE : CHEMICAL
WEIGHT : 9.200 ppg
CHLORIDES : 7800 ppm
JARS-MAKE : NO
DID WELL FLOW?: NO

VISCOSITY : 42.00 cp
WATER LOSS: 8.000 cc

SERIAL NUMBER: 0000
REVERSED OUT?: NO

COMMENTS

Comment

WEAK BLOW BUILDING TO A STRONG BLOW IN 3 MINUTES
ON INITIAL FLOW PERIOD. WEAK BLOW BUILDING TO A
STRONG BLOW IN 8 MINUTES ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
1175.0	0.0	0.0	100.0	0.0	WATER S/SHOW OF OIL ON
0.0	0.0	0.0	0.0	0.0	TOP 35'.

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.0000	STB		
WATER VOLUME:	15.0822	STB		
TOTAL FLUID :	15.0822	STB		
			TOTAL FLOW TIME:	125.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	173.7471 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2139.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	156.00	281.00
INITIAL SHUT-IN	60.00		904.00
FINAL FLOW	90.00	375.00	541.00
FINAL SHUT-IN	90.00		997.00

FINAL HYDROSTATIC PRESSURE: 2108.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2167.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	175.00	300.00
INITIAL SHUT-IN	60.00		918.00
FINAL FLOW	95.00	381.00	557.00
FINAL SHUT-IN	93.00		1006.00

FINAL HYDROSTATIC PRESSURE: 2129.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/21/93	TICKET : 20130
CUSTOMER : PICKRELL DRILLING CO. INC	LEASE : BUEHLER A
WELL : #1	GEOLOGIST: BILL KLAVER
ELEVATION: 3099 K.B.	FORMATION: PLEASANTON
SECTION : 10	TOWNSHIP : 19S
RANGE : 34W	STATE : KS
GAUGE SN#: 10270	CLOCK : 12
COUNTY: SCOTT	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	175.00	175.00
5.00	188.00	13.00
10.00	214.00	26.00
15.00	234.00	20.00
20.00	257.00	23.00
25.00	277.00	20.00
30.00	300.00	23.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	437.00	437.00	6.00
6.00	490.00	53.00	3.50
9.00	538.00	48.00	2.67
12.00	578.00	40.00	2.25
15.00	605.00	27.00	2.00
18.00	648.00	43.00	1.83
21.00	676.00	28.00	1.71
24.00	701.00	25.00	1.63
27.00	724.00	23.00	1.56
30.00	749.00	25.00	1.50
33.00	776.00	27.00	0.00
36.00	794.00	18.00	0.00
39.00	810.00	16.00	0.00
42.00	829.00	19.00	0.00
45.00	849.00	20.00	0.00
48.00	866.00	17.00	0.00
51.00	881.00	15.00	0.00
54.00	896.00	15.00	0.00
57.00	908.00	12.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	918.00	10.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	381.00	381.00
5.00	381.00	0.00
10.00	391.00	10.00
15.00	403.00	12.00
20.00	418.00	15.00
25.00	429.00	11.00
30.00	442.00	13.00
35.00	454.00	12.00
40.00	464.00	10.00
45.00	476.00	12.00
50.00	485.00	9.00
55.00	494.00	9.00
60.00	501.00	7.00
65.00	509.00	8.00
70.00	520.00	11.00
75.00	528.00	8.00
80.00	536.00	8.00
85.00	546.00	10.00
90.00	551.00	5.00
95.00	557.00	6.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	595.00	595.00	19.33
6.00	622.00	27.00	10.17
9.00	653.00	31.00	7.11
12.00	682.00	29.00	5.58
15.00	700.00	18.00	4.67
18.00	732.00	32.00	4.06
21.00	750.00	18.00	3.62
24.00	760.00	10.00	3.29
27.00	779.00	19.00	3.04

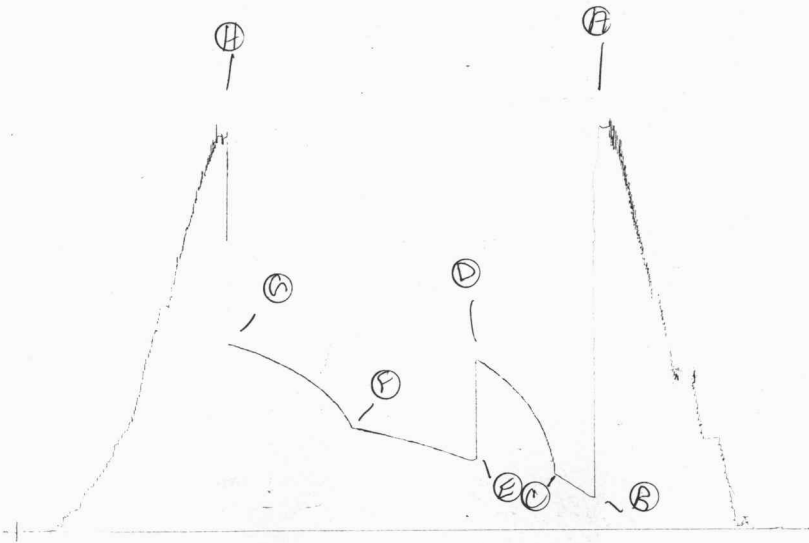
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
30.00	792.00	13.00	2.83
33.00	809.00	17.00	2.67
36.00	824.00	15.00	2.53
39.00	839.00	15.00	2.41
42.00	848.00	9.00	2.31
45.00	860.00	12.00	2.22
48.00	873.00	13.00	2.15
51.00	884.00	11.00	2.08
54.00	895.00	11.00	2.02
57.00	905.00	10.00	1.96
60.00	917.00	12.00	1.92
63.00	925.00	8.00	0.00
66.00	934.00	9.00	0.00
69.00	943.00	9.00	0.00
72.00	955.00	12.00	0.00
75.00	964.00	9.00	0.00
78.00	972.00	8.00	0.00
81.00	979.00	7.00	0.00
84.00	987.00	8.00	0.00
87.00	992.00	5.00	0.00
90.00	1002.00	10.00	0.00
93.00	1006.00	4.00	0.00

KT 20/30
I

OST#1
10000



KT 20/30
O

OST#1
13550





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 20131P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201Elevation 3099 LB Formation MARMATON Eff. Pay Ft.District GREAT BEND Date 11-22-93 Customer Order No. COMPANY NAME Pickrell Drilling Company, IncADDRESS 110 N. MARKET, Suite 205 WICHITA, KS, 67202LEASE AND WELL NO Buehler 'A' #1 COUNTY SCOTT STATE KS Sec. 10 Twp. 19S Rge. 24EMail Invoice To Same Co. Name Buehler A Address No. Copies Requested RegMail Charts To Same Address No. Copies Requested RegFormation Test No. 2 Interval Tested From 4502 ft. to 4525 ft. Total Depth 4525 ft.Packer Depth 4497 ft. Size 6 5/8 in. Packer Depth ft. Size in.Packer Depth 4502 ft. Size 6 5/8 in. Packer Depth ft. Size in.Depth of Selective Zone Set Top Recorder Depth (Inside) 4517 ft. Recorder Number 10270 Cap. 4150Bottom Recorder Depth (Outside) 4520 ft. Recorder Number 13550 Cap. 4175Below Straddle Recorder Depth ft. Recorder Number Cap. Drilling Contractor Pickrell Drilling Co Drill Collar Length 180 I. D. 2.2 in.Mud Type Chemical Viscosity 55 Weight Pipe Length I. D. in.Weight 8.9 Water Loss 6.4 cc. Drill Pipe Length 4302 I. D. 3.8 in.Chlorides 7600 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.Jars: Make Serial Number Anchor Length 23 ft. Size 5 1/2 in.Did Well Flow? Reversed Out yes 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 14 in.Blow: IF - WEAK building to a strong blow in 4 minFF - WEAK building to a strong blow in 6 minRecovered 2 ft. of OilRecovered 1700 ft. of WATER w/ scum of oil throughoutRecovered ft. of less than 17.Recovered ft. of Recovered ft. of Chlorides 26000 P.P.M. Sample Jars used 3 Remarks: Time On Location 6:10 A.M. Time Pick Up Tool 8:10 A.M. Time Off Location A.M.Time Set Packer(s) 8:45 A.M. Time Started Off Bottom 1:15 A.M. Maximum Temperature 118 P.M.Initial Hydrostatic Pressure (A) 2170 P.S.I.Initial Flow Period Minutes 30 (B) 93 P.S.I. to (C) 343 P.S.I.Initial Closed In Period Minutes 60 (D) 1080 P.S.I.Final Flow Period Minutes 90 (E) 406 P.S.I. to (F) 759 P.S.I.Final Closed In Period Minutes 90 (G) 1039 P.S.I.Final Hydrostatic Pressure (H) 2160 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 Bill Kluever
Signature of Customer or his authorized representativeWestern Representative Ray Schwager Thank you

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 11-22-92 Test Ticket No. 2051
 Recorder No. 10270 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2218</u>	P.S.I.		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 <u>2125</u>	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 <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	95	0	259	0	2110	0	262
P 2 5	137	3	822	5	2414	3	898
P 3 10	179	6	887	10	2432	6	222
P 4 15	227	9	927	15	2604	9	240
P 5 20	276	12	951	20	288	12	252
P 6 25	312	15	972	25	520	15	261
P 7 30	359	18	985	30	539	18	920
P 8 35		21	998	35	566	21	927
P 9 40		24	1009	40	588	24	984
P10 45		27	1020	45	610	27	991
P11 50		30	1027	50	622	30	996
P12 55		33	1036	55	650	33	999
P13 60		36	1039	60	669	36	1003
P14 65		39	1048	65	680	39	1008
P15 70		42	1054	70	697	42	1012
P16 75		45	1059	75	714	45	1017
P17 80		48	1062	80	731	48	1020
P18 85		51	1067	85	742	51	1023
P19 90		54	1070	90	754	54	1025
P20 95		57	1073	95	762	57	1027
100		60	1076	100		60	1029
		62	1078				
		64	1080				

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 20131

Recorder No. _____ Capacity _____ Location _____ Ft.

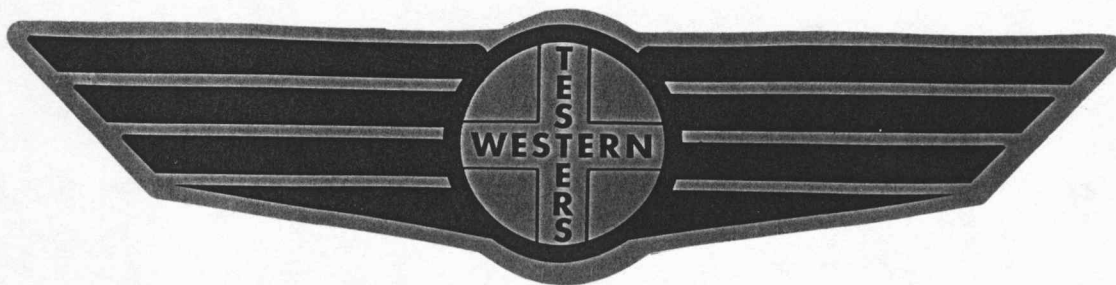
Clock No. _____ Elevation _____ Well Temperature _____ °F

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 1 105		63		105		63	1034
P 2 110		66		110		66	1036
P 3 115		69		115		69	1038
P 4 120		72		120		72	1040
P 5 125		75		125		75	1042
P 6 130		78		130		78	1044
P 7 135		81		135		81	1046
P 8 140		84		140		84	1048
P 9 145		87		145		87	1050
P10 150		90		150		90	1052
P11 155		93		155		93	
P12 160		96		160		96	
P13 165		99		165		99	
P14 170		102		170		102	
P15 175		105		175		105	
P16 180		108		180		108	
P17 185		111		185		111	
P18 190		114		190		114	
P19 195		117		195		117	
P20 200		120		200		120	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 11/22/93	TICKET	: 20131
CUSTOMER	: PICKRELL DRILLING CO. INC	LEASE	: BUEHLER A
WELL	: #1	TEST: 2	GEOLOGIST: BILL KLAVER
ELEVATION	: 3099 K.B.	FORMATION	: MARMATON
SECTION	: 10	TOWNSHIP	: 19S
RANGE	: 34W	STATE	: KS
GAUGE SN#	: 10270	RANGE	: 4150
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4502.00 ft	TO:	4525.00 ft	TVD:	4525.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4517.0 ft		4520.0 ft		
TEMPERATURE:	118.0				
DRILL COLLAR LENGTH:	180.0 ft	I.D.:	2.200 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	4302.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	23.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH		
PACKER DEPTH:	4497.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	4502.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	PICKRELL DRLG. #10	VISCOSITY :	55.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	6.400 cc
WEIGHT :	8.900 ppg	SERIAL NUMBER:	0000
CHLORIDES :	7600 ppm	REVERSED OUT?:	YES
JARS-MAKE :	NO		
DID WELL FLOW?:	NO		

COMMENTS

Comment

WEAK BLOW BUILDING TO A STRONG BLOW IN 4 MINUTES
ON INITIAL FLOW PERIOD. WEAK BLOW BUILDING TO A
STRONG BLOW IN 6 MINUTES ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2.0	100.0	0.0	0.0	0.0	OIL
1700.0	1.0	0.0	99.0	0.0	WATER W/SCUM OF OIL
0.0	0.0	0.0	0.0	0.0	THROUGHOUT LESS THAN 1%

RATE INFORMATION

OIL VOLUME:	0.2497 STB	
GAS VOLUME:	0.0000 SCF	
MUD VOLUME:	0.0000 STB	
WATER VOLUME:	21.9446 STB	
TOTAL FLUID :	22.1944 STB	
		TOTAL FLOW TIME: 125.0000 min.
		AVERAGE OIL RATE: 2.8767 STB/D
		AVERAGE WATER RATE: 252.8023 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2170.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	93.00	343.00
INITIAL SHUT-IN	60.00		1080.00
FINAL FLOW	90.00	406.00	759.00
FINAL SHUT-IN	90.00		1039.00

FINAL HYDROSTATIC PRESSURE: 2160.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2218.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	95.00	339.00
INITIAL SHUT-IN	66.00		1080.00
FINAL FLOW	95.00	410.00	762.00
FINAL SHUT-IN	90.00		1048.00

FINAL HYDROSTATIC PRESSURE: 2173.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/22/93	TICKET : 20131
CUSTOMER : PICKRELL DRILLING CO. INC	LEASE : BUEHLER A
WELL : #1	GEOLOGIST: BILL KLAVER
ELEVATION: 3099 K.B.	FORMATION: MARMATON
SECTION : 10	TOWNSHIP : 19S
RANGE : 34W	STATE : KS
GAUGE SN#: 10270	CLOCK : 12
COUNTY: SCOTT	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	95.00	95.00
5.00	137.00	42.00
10.00	179.00	42.00
15.00	227.00	48.00
20.00	276.00	49.00
25.00	313.00	37.00
30.00	339.00	26.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	832.00	832.00	0.00
6.00	887.00	55.00	0.00
9.00	927.00	40.00	0.00
12.00	951.00	24.00	0.00
15.00	972.00	21.00	0.00
18.00	985.00	13.00	0.00
21.00	998.00	13.00	0.00
24.00	1009.00	11.00	0.00
27.00	1020.00	11.00	0.00
30.00	1027.00	7.00	0.00
33.00	1036.00	9.00	0.00
36.00	1039.00	3.00	0.00
39.00	1048.00	9.00	0.00
42.00	1054.00	6.00	0.00
45.00	1059.00	5.00	0.00
48.00	1063.00	4.00	0.00
51.00	1067.00	4.00	0.00
54.00	1070.00	3.00	0.00
57.00	1073.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	1076.00	3.00	0.00
63.00	1078.00	2.00	0.00
66.00	1080.00	2.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	410.00	410.00
5.00	414.00	4.00
10.00	433.00	19.00
15.00	464.00	31.00
20.00	488.00	24.00
25.00	520.00	32.00
30.00	539.00	19.00
35.00	566.00	27.00
40.00	588.00	22.00
45.00	610.00	22.00
50.00	633.00	23.00
55.00	650.00	17.00
60.00	669.00	19.00
65.00	680.00	11.00
70.00	697.00	17.00
75.00	714.00	17.00
80.00	731.00	17.00
85.00	743.00	12.00
90.00	754.00	11.00
95.00	762.00	8.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	898.00	898.00	0.00
6.00	923.00	25.00	0.00
9.00	940.00	17.00	0.00
12.00	952.00	12.00	0.00
15.00	961.00	9.00	0.00
18.00	970.00	9.00	0.00
21.00	977.00	7.00	0.00

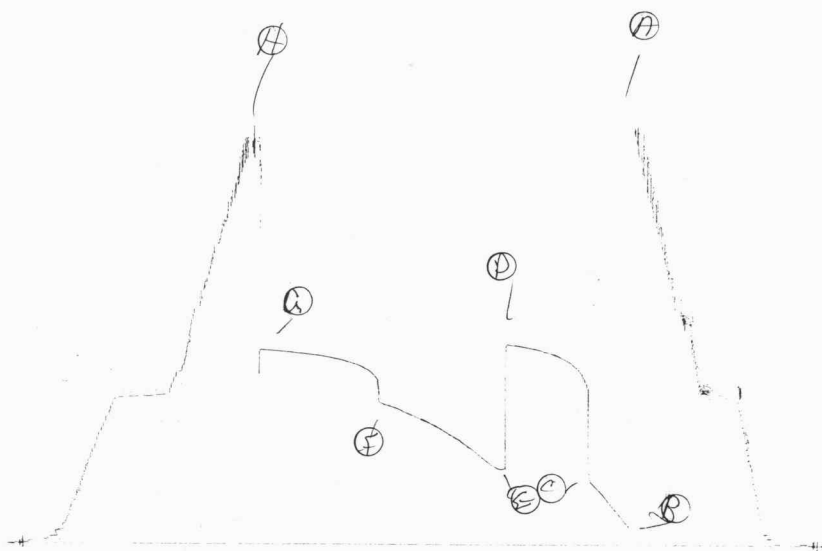
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
24.00	984.00	7.00	0.00
27.00	991.00	7.00	0.00
30.00	996.00	5.00	0.00
33.00	999.00	3.00	0.00
36.00	1003.00	4.00	0.00
39.00	1008.00	5.00	0.00
42.00	1012.00	4.00	0.00
45.00	1017.00	5.00	0.00
48.00	1020.00	3.00	0.00
51.00	1023.00	3.00	0.00
54.00	1025.00	2.00	0.00
57.00	1027.00	2.00	0.00
60.00	1029.00	2.00	0.00
63.00	1031.00	2.00	0.00
66.00	1033.00	2.00	0.00
69.00	1035.00	2.00	0.00
72.00	1037.00	2.00	0.00
75.00	1039.00	2.00	0.00
78.00	1041.00	2.00	0.00
81.00	1043.00	2.00	0.00
84.00	1045.00	2.00	0.00
87.00	1047.00	2.00	0.00
90.00	1048.00	1.00	0.00

KT 20131

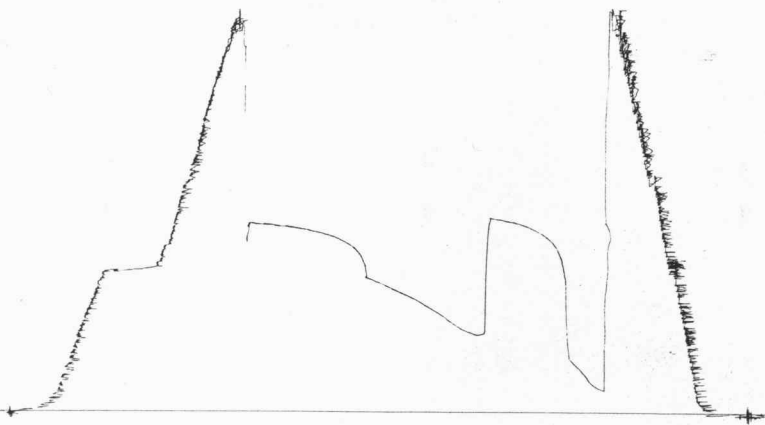
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OST#2
10270

KT 20131

O



OST#2
12550



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET **Nº** 20132

Elevation 3099 KB Formation MARMATON Eff. Pay — Ft.

District GREAT Bend Date 11-23-93 Customer Order No. —

COMPANY NAME Pickrell Drilling Company, Inc.

ADDRESS 110 N. MARKET Suite 205 WICHITA, KS 67202

LEASE AND WELL NO. Buckler "A" #1 COUNTY SCOTT STATE Ks Sec. 10 Twp. 19.8 Rge. 24

Mail Invoice To Same Co. Name #1 Buckler A Address — No. Copies Requested Reg

Mail Charts To Same Address — No. Copies Requested Reg

Formation Test No. 3 Interval Tested From 4522 ft. to 4624 ft. Total Depth 4624 ft.

Packer Depth 4517 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 4522 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4525 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 4528 ft. Recorder Number 13550 Cap. 4175

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

Drilling Contractor Pickrell Drilling Co. Drill Collar Length 120 I. D. 2.2 in.

Mud Type Chemical Viscosity 64 Weight Pipe Length — I. D. — in.

Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 4382 I. D. 3.8 in.

Chlorides 9400 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 102 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 XH in.

Blow: IF - WEAK building To A Strong Blow in 16 min.
FF - WEAK building To A Good Blow 1/2" To 8" Blow

Recovered 930 ft. of WATER

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Chlorides 25000 P.P.M. Sample Jars used 1 Remarks: —

Time On Location 9:45 A.M. Time Pick Up Tool 10:35 A.M. Time Off Location — P.M.

Time Set Packer(s) 12:40 P.M. Time Started Off Bottom 5:10 P.M. Maximum Temperature 119

Initial Hydrostatic Pressure (A) 2149 P.S.I.

Initial Flow Period Minutes 30 (B) 41 P.S.I. to (C) 135 P.S.I.

Initial Closed In Period Minutes 60 (D) 1080 P.S.I.

Final Flow Period Minutes 90 (E) 187 P.S.I. to (F) 395 P.S.I.

Final Closed In Period Minutes 90 (G) 1039 P.S.I.

Final Hydrostatic Pressure (H) 2129 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 Bill Klueh
Signature of Customer or his authorized representative

Western Representative Ray Schwager Mark
404

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 11-23-82 Test Ticket No. 10122
 Recorder No. 10270 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2187</u> P.S.I.			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	<u>2144</u> 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 <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>602</u>	0	<u>147</u>	0	<u>204</u>	0	<u>404</u>
P 2 5	<u>69</u>	3	<u>808</u>	5	<u>5</u>	3	<u>835</u>
P 3 10	<u>82</u>	6	<u>854</u>	10	<u>204</u>	6	<u>869</u>
P 4 15	<u>96</u>	9	<u>883</u>	15	<u>214</u>	9	<u>892</u>
P 5 20	<u>114</u>	12	<u>907</u>	20	<u>225</u>	12	<u>918</u>
P 6 25	<u>132</u>	15	<u>924</u>	25	<u>237</u>	15	<u>934</u>
P 7 30	<u>147</u>	18	<u>938</u>	30	<u>251</u>	18	<u>946</u>
P 8 35		21	<u>952</u>	35	<u>265</u>	21	<u>958</u>
P 9 40		24	<u>964</u>	40	<u>281</u>	24	<u>969</u>
P10 45		27	<u>981</u>	45	<u>293</u>	27	<u>976</u>
P11 50		30	<u>990</u>	50	<u>308</u>	30	<u>979</u>
P12 55		33	<u>1002</u>	55	<u>320</u>	33	<u>985</u>
P13 60		36	<u>1014</u>	60	<u>330</u>	36	<u>986</u>
P14 65		39	<u>1026</u>	65	<u>346</u>	39	<u>990</u>
P15 70		42	<u>1035</u>	70	<u>358</u>	42	<u>997</u>
P16 75		45	<u>1044</u>	75	<u>370</u>	45	<u>1004</u>
P17 80		48	<u>1053</u>	80	<u>381</u>	48	<u>1110</u>
P18 85		51	<u>1065</u>	85	<u>396</u>	51	<u>1116</u>
P19 90		54	<u>1074</u>	90	<u>404</u>	54	<u>1122</u>
P20 95		57	<u>1081</u>	95		57	<u>1127</u>
100		60	<u>1089</u>	100		60	<u>1031</u>

WESTERN TESTING CO., INC.

Pressure Data

Date: _____

Test Ticker No. 2032

Recorder No. _____ Capacity _____ Location _____ Ft.

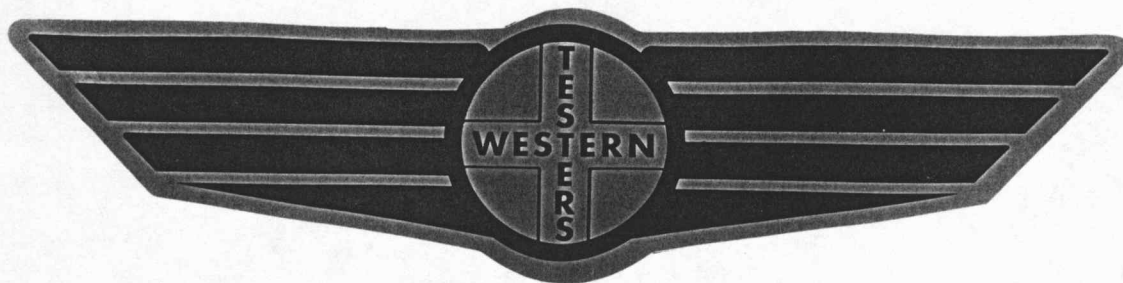
Clock No. _____ Elevation _____ Well Temperature _____ °F

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 1 105		63		105		63	1036
P 2 110		66		110		66	1045
P 3 115		69		115		69	1048
P 4 120		72		120		72	1050
P 5 125		75		125		75	1051
P 6 130		78		130		78	1054
P 7 135		81		135		81	1056
P 8 140		84		140		84	1057
P 9 145		87		145		87	1058
P10 150		90		150		90	1059
P11 155		93		155		93	
P12 160		96		160		96	
P13 165		99		165		99	
P14 170		102		170		102	
P15 175		105		175		105	
P16 180		108		180		108	
P17 185		111		185		111	
P18 190		114		190		114	
P19 195		117		195		117	
P20 200		120		200		120	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 11/23/93
CUSTOMER : PICKRELL DRILLING CO. INC
WELL : #1 TEST: 3
ELEVATION: 3099 K.B.
SECTION : 10
RANGE : 34W COUNTY: SCOTT
GAUGE SN#: 10270 RANGE : 4150

TICKET : 20132
LEASE : BUEHLER A
GEOLOGIST: BILL KLAVER
FORMATION: MARMATON
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4522.00 ft TO: 4624.00 ft TVD: 4624.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4525.0 ft 4528.0 ft
TEMPERATURE: 119.0

DRILL COLLAR LENGTH:	120.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	4382.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	102.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH:	4517.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4522.0 ft	SIZE:	6.630 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : PICKRELL DRLG. #10
MUD TYPE : CHEMICAL
WEIGHT : 9.200 ppg
CHLORIDES : 9400 ppm
JARS-MAKE : NO
DID WELL FLOW?: NO

VISCOSITY : 64.00 cp
WATER LOSS: 11.200 cc

SERIAL NUMBER: 0000
REVERSED OUT?: NO

COMMENTS

Comment

WEAK BUILDING TO A STRONG BLOW IN 16 MINUTES ON
INITIAL FLOW PERIOD. WEAK BUILDING TO A GOOD BLOW
1/2" TO 8" BLOW ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
930.0	0.0	0.0	100.0	0.0	WATER CHLORIDES 25000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.0000	STB		
WATER VOLUME:	11.9255	STB		
TOTAL FLUID :	11.9255	STB		
			TOTAL FLOW TIME:	120.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	143.1061 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2170.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	93.00	343.00
INITIAL SHUT-IN	60.00		1080.00
FINAL FLOW	90.00	406.00	759.00
FINAL SHUT-IN	90.00		1039.00

FINAL HYDROSTATIC PRESSURE: 2160.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2218.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	63.00	147.00
INITIAL SHUT-IN	60.00		1089.00
FINAL FLOW	90.00	204.00	404.00
FINAL SHUT-IN	90.00		1059.00

FINAL HYDROSTATIC PRESSURE: 2173.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/23/93	TICKET : 20132
CUSTOMER : PICKRELL DRILLING CO. INC	LEASE : BUEHLER A
WELL : #1	GEOLOGIST: BILL KLAVER
ELEVATION: 3099 K.B.	FORMATION: MARMATON
SECTION : 10	TOWNSHIP : 19S
RANGE : 34W	STATE : KS
GAUGE SN#: 10270	CLOCK : 12
COUNTY: SCOTT	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	63.00	63.00
5.00	69.00	6.00
10.00	82.00	13.00
15.00	96.00	14.00
20.00	114.00	18.00
25.00	133.00	19.00
30.00	147.00	14.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	808.00	808.00	0.00
6.00	854.00	46.00	0.00
9.00	883.00	29.00	0.00
12.00	907.00	24.00	0.00
15.00	924.00	17.00	0.00
18.00	938.00	14.00	0.00
21.00	952.00	14.00	0.00
24.00	964.00	12.00	0.00
27.00	981.00	17.00	0.00
30.00	990.00	9.00	0.00
33.00	1003.00	13.00	0.00
36.00	1014.00	11.00	0.00
39.00	1026.00	12.00	0.00
42.00	1035.00	9.00	0.00
45.00	1044.00	9.00	0.00
48.00	1053.00	9.00	0.00
51.00	1065.00	12.00	0.00
54.00	1074.00	9.00	0.00
57.00	1081.00	7.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1089.00	8.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	204.00	204.00
5.00	204.00	0.00
10.00	204.00	0.00
15.00	214.00	10.00
20.00	225.00	11.00
25.00	239.00	14.00
30.00	251.00	12.00
35.00	265.00	14.00
40.00	281.00	16.00
45.00	293.00	12.00
50.00	308.00	15.00
55.00	320.00	12.00
60.00	330.00	10.00
65.00	346.00	16.00
70.00	358.00	12.00
75.00	370.00	12.00
80.00	381.00	11.00
85.00	396.00	15.00
90.00	404.00	8.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	835.00	835.00	0.00
6.00	869.00	34.00	0.00
9.00	897.00	28.00	0.00
12.00	918.00	21.00	0.00
15.00	934.00	16.00	0.00
18.00	946.00	12.00	0.00
21.00	958.00	12.00	0.00
24.00	969.00	11.00	0.00
27.00	976.00	7.00	0.00
30.00	979.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

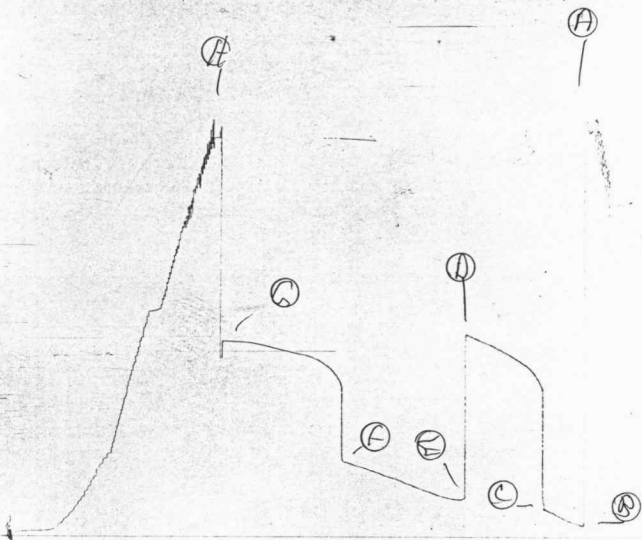
FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
33.00	982.00	3.00	0.00
36.00	986.00	4.00	0.00
39.00	991.00	5.00	0.00
42.00	997.00	6.00	0.00
45.00	1004.00	7.00	0.00
48.00	1011.00	7.00	0.00
51.00	1016.00	5.00	0.00
54.00	1022.00	6.00	0.00
57.00	1027.00	5.00	0.00
60.00	1031.00	4.00	0.00
63.00	1036.00	5.00	0.00
66.00	1045.00	9.00	0.00
69.00	1048.00	3.00	0.00
72.00	1050.00	2.00	0.00
75.00	1052.00	2.00	0.00
78.00	1054.00	2.00	0.00
81.00	1056.00	2.00	0.00
84.00	1057.00	1.00	0.00
87.00	1058.00	1.00	0.00
90.00	1059.00	1.00	0.00

JKT 20132

1

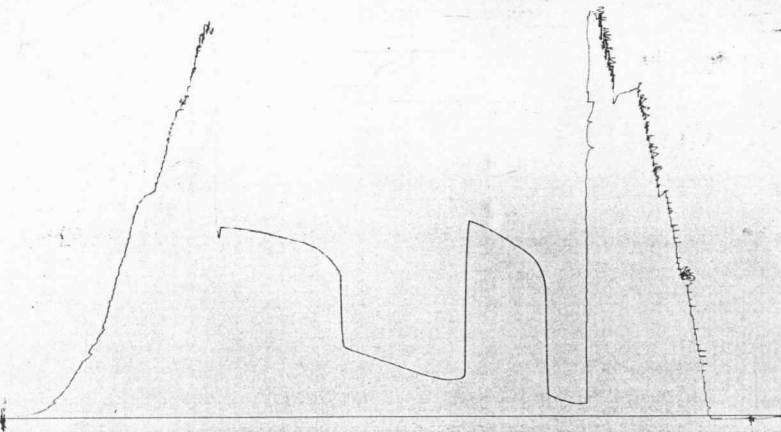
OST#3



JKT 20132

①

OST#3
13550





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 20118P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 3099 K.B. Formation LOWER CHOROKCH Eff. Pay Ft.

District GREAT BEND Date 11-25-93 Customer Order No.

COMPANY NAME PICKRELL DRILL CO. ✓

ADDRESS 110 N MARKET, SUITE 205 WICHITA KS 67203

LEASE AND WELL NO. BUEHLER #1 COUNTY SCOTT STATE KS Sec. 10 Twp. 19S Rge. 34W

Mail Invoice To Co. Name SAME Address No. Copies Requested R02

Mail Charts To Address No. Copies Requested

Formation Test No. 4 Interval Tested From 4706 ft. to 4798 ft. Total Depth 4798 ft.

Packer Depth 4706 ft. Size 6 5/8 in. Packer Depth 4798 ft. Size 6 5/8 in.

Packer Depth 4706 ft. Size 6 5/8 in. Packer Depth 4798 ft. Size 6 5/8 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4710 ft. Recorder Number 11018 Cap. 4425 MS1

Bottom Recorder Depth (Outside) 4795 ft. Recorder Number 13629 Cap. 4425 "

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor COMPANY TOOLS R1610 Drill Collar Length 120 I. D. 2.3 in.

Mud Type CHEMICAL Viscosity 40 Weight Pipe Length 0 I. D. in.

Weight 8.9 Water Loss 12.8 cc. Drill Pipe Length 4560 I. D. 3.2 in.

Chlorides 8,600 P.P.M. Test Tool Length 20 ft. Tool Size 5 5/8 in.

Jars: Make NITRAV Serial Number Anchor Length 92 ft. Size 5 5/8 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: 1ST FLOW: WEAK BLOW DEAD IN 15 MINUTES

2ND FLOW: NO BLOW - FLUSHED TOOL + RECOVERED WEAK SURGE + THEN DEAD

Recovered 30 ft. of DRILLING MUD

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

Time On Location 10:00 A.M. Time Pick Up Tool 12:00 P.M. Time Off Location 8:00 A.M. P.M.

Time Set Packer(s) 2:10 A.M. P.M. Time Started Off Bottom 4:10 A.M. P.M. Maximum Temperature 121°

Initial Hydrostatic Pressure (A) 2244 P.S.I.

Initial Flow Period Minutes 30 (B) 27 P.S.I. to (C) 27 P.S.I.

Initial Closed In Period Minutes 30 (D) 44 P.S.I.

Final Flow Period Minutes 30 (E) 33 P.S.I. to (F) 34 P.S.I.

Final Closed In Period Minutes 30 (G) 46 P.S.I.

Final Hydrostatic Pressure (H) 2220 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 Bill Klewer
Signature of Customer or his authorized representative

Western Representative John Treack

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 11-25-93

Test Ticket No. 20118

Recorder No. 11018

Capacity _____ Location _____ Ft

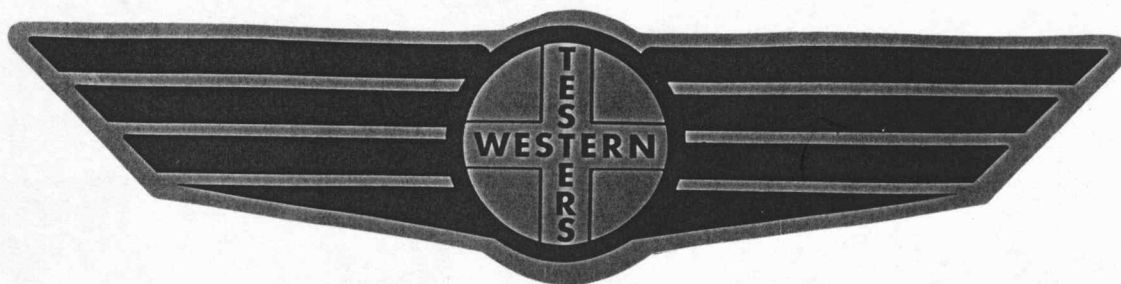
Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2247</u>	P.S.I.			
B First Initial Flow Pressure <u>59</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>39</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure <u>43</u>	P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure <u>43</u>	P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>48</u> Mins.
F Second Final Flow Pressure <u>47</u>	P.S.I.			
G Final Closed-in Pressure <u>60</u>	P.S.I.			
H Final Hydrostatic Mud <u>2230</u>	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 <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.
B P 1 0	59 <u>59</u>	C 0	<u>39</u>	E 0	<u>43</u>	F 0	<u>47</u>
P 2 5	47 <u>47</u>	3		5	51 <u>51</u>	3	
P 3 10	41 <u>41</u>	6		10	<u>60</u> FT	6	
P 4 15	<u>39</u>	9		15	<u>50</u>	9	
P 5 20	<u>39</u>	12		20	<u>49</u>	12	
P 6 25	<u>1</u>	15		25	<u>47</u>	15	<u>47</u>
C P 7 30	<u>39</u>	18		F 30	<u>47</u>	18	
P 8 35		21		35		21	
P 9 40		24		40		24	<u>47</u>
P10 45		27		45		27	
P11 50		D 30	<u>43</u>	50		G 30	<u>47</u>
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	<u>47</u>
P15 70		42		70		42	<u>49</u>
P16 75		45		75		45	<u>54</u>
P17 80		48		80		G 48	<u>60</u>
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY PICKRELL DRILLING CO., INC. LEASE & WELL NO. #1 BUEHLER SEC. 10 TWP. 19S RGE. 34W TEST NO. 4 DATE 11/25/93

DST REPORT

GENERAL INFORMATION

DATE	: 11-25-93	TICKET	: 20118
CUSTOMER	: PICKRELL DRILLING CO. INC	LEASE	: BUEHLER A
WELL	: #1	TEST: 4	GEOLOGIST: BILL KLAVER
ELEVATION	: 3099 K.B.	FORMATION	: LOWER CHEROKEE
SECTION	: 10	TOWNSHIP	: 19S
RANGE	: 34W	STATE	: KS
GAUGE SN#	: 11018	RANGE	: 4425
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4706.00 ft	TO:	4798.00 ft	TVD:	4798.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4710.0 ft		4795.0 ft		
TEMPERATURE:	121.0				
DRILL COLLAR LENGTH:	120.0 ft	I.D.:		2.300 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4566.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	92.0 ft	ANCHOR SIZE:		5.500 in	
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:		0.750 in	
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :		4.5XH	
PACKER DEPTH:	4701.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4706.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	PICKRELL DRLG. #10	VISCOSITY :	40.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	12.800 cc
WEIGHT :	8.900 ppq		
CHLORIDES :	8600 ppm	SERIAL NUMBER:	0000
JARS-MAKE :	NO	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

WEAK BLOW DEAD IN 15 MINUTES ON INITIAL FLOW
PERIOD. NO BLOW - FLUSHED TOOL AND RECOVERED
WEAK SURGE AND THEN DEAD ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.1542	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.1542	STB		
			TOTAL FLOW TIME:	60.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2244.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	27.00	27.00
INITIAL SHUT-IN	30.00		44.00
FINAL FLOW	30.00	33.00	34.00
FINAL SHUT-IN	30.00		46.00

FINAL HYDROSTATIC PRESSURE: 2220.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2247.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	39.00
INITIAL SHUT-IN	30.00		43.00
FINAL FLOW	30.00	43.00	47.00
FINAL SHUT-IN	48.00		60.00

FINAL HYDROSTATIC PRESSURE: 2230.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11-25-93	TICKET : 20118
CUSTOMER : PICKRELL DRILLING CO. INC	LEASE : BUEHLER A
WELL : #1	GEOLOGIST: BILL KLAVER
ELEVATION: 3099 K.B.	FORMATION: LOWER CHEROKEE
SECTION : 10	TOWNSHIP : 19S
RANGE : 34W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
COUNTY: SCOTT	
RANGE : 4425	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	42.00	42.00
5.00	41.00	-1.00
10.00	40.00	-1.00
15.00	39.00	-1.00
20.00	39.00	0.00
25.00	39.00	0.00
30.00	39.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
0.00	39.00	39.00	0.00
6.00	39.00	0.00	0.00
9.00	40.00	1.00	0.00
12.00	40.00	0.00	0.00
15.00	41.00	1.00	0.00
18.00	41.00	0.00	0.00
21.00	42.00	1.00	0.00
24.00	42.00	0.00	0.00
27.00	43.00	1.00	0.00
30.00	43.00	0.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	43.00	43.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
5.00	51.00	8.00
10.00	60.00	9.00
15.00	50.00	-10.00
20.00	49.00	-1.00
25.00	48.00	-1.00
30.00	47.00	-1.00

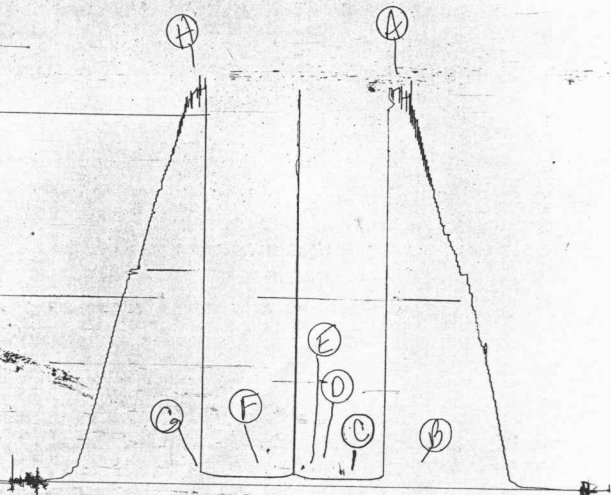
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	47.00	47.00	0.00
6.00	47.00	0.00	0.00
9.00	47.00	0.00	0.00
12.00	47.00	0.00	0.00
15.00	48.00	1.00	0.00
18.00	49.00	1.00	0.00
21.00	50.00	1.00	0.00
24.00	51.00	1.00	0.00
27.00	52.00	1.00	0.00
30.00	53.00	1.00	0.00
33.00	54.00	1.00	0.00
36.00	55.00	1.00	0.00
39.00	56.00	1.00	0.00
42.00	57.00	1.00	0.00
45.00	58.00	1.00	0.00
48.00	60.00	2.00	0.00

DET #4 REC #11018 INSIDE

TK #20118

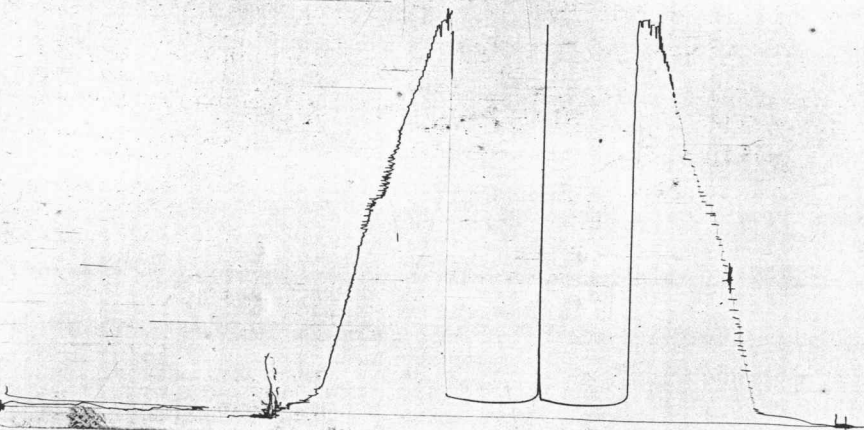
I.



DET #4 REC #13022 OUTSIDE

TK #20118

O.





WESTERN TESTING CO., INC.
FORMATION TESTING

LAST DST

TICKET N^o 20119

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

Elevation 3099 K.B. Formation MORROW Eff. Pay Ft.

District GREAT BEND Date 11-25-93 Customer Order No.

COMPANY NAME PICKRELL DRUG CO

ADDRESS 110 N. MARKET, SUITE 205 WICHITA KS 67202

LEASE AND WELL NO. BUHLER #1 COUNTY SCOTT STATE KS Sec. 10 Twp. 19S Rge 34W

Mail Invoice To SAME No. Copies Requested RSC
Co. Name Address

Mail Charts To No. Copies Requested
Address

Formation Test No. 5 Interval Tested From 4780 ft. to 4833 ft. Total Depth 4833 ft.

Packer Depth 4725 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 4280 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4790 ft. Recorder Number 11018 Cap. 4425 PSI

Bottom Recorder Depth (Outside) 4830 ft. Recorder Number 13629 Cap. 4425 "

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor COMPANY TOOLS R1610 Drill Collar Length 150' I. D. 2 1/2 in.

Mud Type CHEMICAL Viscosity 51 Weight Pipe Length 0 I. D. in.

Weight 9.1 Water Loss 11.2 cc. Drill Pipe Length 4610 I. D. 3.8 in.

Chlorides 9,200 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make NOT RAN 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 2 7/8 in. Tool Joint Size 4 1/2 XH in.

Blow: 1ST FLOW: WEAK BLOW 2"

2ND FLOW: WEAK BLOW 2"

Recovered 70 ft. of DRILLING MUD

Recovered 180 ft. of MUDDY WATER (20% MUD 80% WATER (R.W. 3 @ 50°) (CHLORIDES 30,000 P.P.M.))

Recovered ft. of

Recovered ft. of

Recovered 250 ft. of TOTAL FLUID RECOVERY

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

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

Time Set Packer(s) 6:15 P.M. Time Started Off Bottom 10:45 A.M. Maximum Temperature 121°

Initial Hydrostatic Pressure 2277 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 40 P.S.I. to (C) 56 P.S.I.

Initial Closed In Period 60 Minutes (D) 1120 P.S.I.

Final Flow Period 90 Minutes (E) 93 P.S.I. to (F) 122 P.S.I.

Final Closed In Period 90 Minutes (G) 1075 P.S.I.

Final Hydrostatic Pressure 2255 P.S.I. (H)

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 Bill Kline
Signature of Customer or his authorized representative

Western Representative John Reed

FIELD INVOICE

Open Hole Test	\$ <u>1</u>
Misrun	\$ <u> </u>
Straddle Test	\$ <u> </u>
Jars	\$ <u> </u>
Selective Zone	\$ <u> </u>
Safety Joint	\$ <u> </u>
Standby	\$ <u> </u>
Evaluation	\$ <u> </u>
Extra Packer	\$ <u> </u>
Circ. Sub.	\$ <u> </u>
Mileage	\$ <u> </u>
Fluid Sampler	\$ <u> </u>
Extra Charts	\$ <u> </u>
Insurance	\$ <u> </u>
Telecopier	\$ <u> </u>
TOTAL	\$ <u> </u>

WESTERN TESTING CO., INC.

Pressure Data

Date 11-25-93

Test Ticket No. 20119

Recorder No. 11018

Capacity _____ Location _____ Ft

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>2283</u>	P.S.I.		M
B First Initial Flow Pressure <u>40</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>56</u>	P.S.I.	<u>60</u> Mins.	<u>63</u> Mins.
D Initial Closed-in Pressure <u>1123</u>	P.S.I.	<u>90</u> Mins.	<u>95</u> Mins.
E Second Initial Flow Pressure <u>98</u>	P.S.I.	<u>90</u> Mins.	<u>96</u> Mins.
F Second Final Flow Pressure <u>120</u>	P.S.I.		
G Final Closed-in Pressure <u>1081</u>	P.S.I.		
H Final Hydrostatic Mud <u>2267</u>	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 <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.
B P 1 0	<u>1</u>	C 0	<u>56</u>	E 0	<u>98</u>	F 0	<u>120</u>
P 2 5	<u>40</u>	3	<u>484</u>	5	<u>98</u>	3	<u>489</u>
P 3 10	<u>45</u>	6	<u>744</u>	10	<u>98</u>	6	<u>627</u>
P 4 15	<u>47</u>	9	<u>854</u>	15	<u>98</u>	9	<u>735</u>
P 5 20	<u>50</u>	12	<u>912</u>	20	<u>98</u>	12	<u>786</u>
P 6 25	<u>52</u>	15	<u>958</u>	25	<u>98</u>	15	<u>834</u>
C P 7 30	<u>56</u>	18	<u>987</u>	30	<u>98</u>	18	<u>870</u>
P 8 35		21	<u>1011</u>	35	<u>98</u>	21	<u>894</u>
P 9 40		24	<u>1032</u>	40	<u>98</u>	24	<u>917</u>
P10 45		27	<u>1045</u>	45	<u>98</u>	27	<u>931</u>
P11 50		30	<u>1062</u>	50	<u>98</u>	30	<u>945</u>
P12 55		33	<u>1068</u>	55	<u>98</u>	33	<u>965</u>
P13 60		36	<u>1073</u>	60	<u>98</u>	36	<u>973</u>
P14 65		39	<u>1077</u>	65	<u>98</u>	39	<u>985</u>
P15 70		42	<u>1085</u>	70	<u>98</u>	42	<u>998</u>
P16 75		45	<u>1096</u>	75	<u>105</u>	45	<u>1007</u>
P17 80		48	<u>1106</u>	80	<u>109</u>	48	<u>1014</u>
P18 85		51	<u>1108</u>	85	<u>112</u>	51	<u>1024</u>
P19 90		54	<u>1112</u>	90	<u>118</u>	54	<u>1029</u>
P20 95		57	<u>1116</u>	F 95	<u>120</u>	57	<u>1033</u>
100		60	<u>1118</u>	100		60	<u>1037</u>
		63	<u>1123</u>				

- continued -

pg 2

WESTERN TESTING CO., INC. Pressure Data

Date _____

Test Ticket No. 20119

Recorder No. _____ Capacity _____ Location _____ Ft.

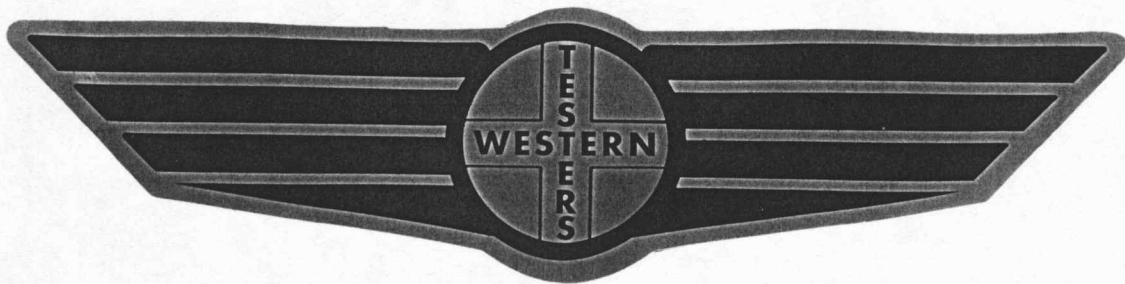
Clock No. _____ Elevation _____ Well Temperature _____ °F

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 1 105		63		105		63	1043
P 2 110		66		110		66	1047
P 3 115		69		115		69	1051
P 4 120		72		120		72	1056
P 5 125		75		125		75	1059
P 6 130		78		130		78	1064
P 7 135		81		135		81	1069
P 8 140		84		140		84	1071
P 9 145		87		145		87	1074
P10 150		90		150		90	1079
P11 155		93		155		93	1080
P12 160		96		160		96	1081
P13 165		99		165		99	
P14 170		102		170		102	
P15 175		105		175		105	
P16 180		108		180		108	
P17 185		111		185		111	
P18 190		114		190		114	
P19 195		117		195		117	
P20 200		120		200		120	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 11/28/93	TICKET	: 20119
CUSTOMER	: PICKRELL DRILLING CO. INC	LEASE	: BUEHLER A
WELL	: #1	TEST: 5	GEOLOGIST: BILL KLAVER
ELEVATION	: 3099 K.B.	FORMATION	: MORROW
SECTION	: 10	TOWNSHIP	: 19S
RANGE	: 34W	STATE	: KS
GAUGE SN#	: 11018	CLOCK	: 12
	COUNTY: SCOTT		
	RANGE : 4425		

WELL INFORMATION

PERFORATION INTERVAL FROM:	4780.00 ft	TO:	4833.00 ft	TVD:	4833.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4790.0 ft		4830.0 ft		
TEMPERATURE:	121.0				
DRILL COLLAR LENGTH:	150.0 ft	I.D.:	2.200 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	4610.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	53.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH		
PACKER DEPTH:	4775.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	4780.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	PICKRELL DRLG. #10	VISCOSITY :	51.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	11.200 cc
WEIGHT :	9.100 ppg		
CHLORIDES :	9200 ppm	SERIAL NUMBER:	0000
JARS-MAKE :	NO	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

WEAL 2" BLOW ON INITIAL FLOW PERIOD. WEAK 2" BLOW
ON FINAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
70.0	0.0	0.0	0.0	100.0	DRILLING MUD
180.0	0.0	0.0	80.0	20.0	MUDDY WATER
0.0	0.0	0.0	0.0	0.0	R.W. 3 @ 50 DEG. F.
0.0	0.0	0.0	0.0	0.0	CHLORIDES 30000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	
GAS VOLUME:	0.0000	SCF	
MUD VOLUME:	1.2070	STB	
WATER VOLUME:	0.9008	STB	
TOTAL FLUID :	2.1078	STB	
			TOTAL FLOW TIME: 125.0000 min.
			AVERAGE OIL RATE: 0.0000 STB/D
			AVERAGE WATER RATE: 12.9714 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2277.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	40.00	56.00
INITIAL SHUT-IN	60.00		1120.00
FINAL FLOW	90.00	93.00	122.00
FINAL SHUT-IN	90.00		1075.00

FINAL HYDROSTATIC PRESSURE: 2255.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2283.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	40.00	56.00
INITIAL SHUT-IN	63.00		0.00
FINAL FLOW	95.00	98.00	120.00
FINAL SHUT-IN	96.00		1081.00

FINAL HYDROSTATIC PRESSURE: 2267.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/28/93	TICKET : 20119
CUSTOMER : PICKRELL DRILLING CO. INC	LEASE : BUEHLER A
WELL : #1	GEOLOGIST: BILL KLAVER
ELEVATION: 3099 K.B.	FORMATION: MORROW
SECTION : 10	TOWNSHIP : 19S
RANGE : 34W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
COUNTY: SCOTT	
RANGE : 4425	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	40.00	40.00
5.00	40.00	0.00
10.00	45.00	5.00
15.00	47.00	2.00
20.00	50.00	3.00
25.00	52.00	2.00
30.00	56.00	4.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	484.00	484.00	0.00
6.00	744.00	260.00	0.00
9.00	854.00	110.00	0.00
12.00	912.00	58.00	0.00
15.00	947.00	35.00	0.00
18.00	987.00	40.00	0.00
21.00	1011.00	24.00	0.00
24.00	1032.00	21.00	0.00
27.00	1045.00	13.00	0.00
30.00	1062.00	17.00	0.00
33.00	1068.00	6.00	0.00
36.00	1073.00	5.00	0.00
39.00	1077.00	4.00	0.00
42.00	1085.00	8.00	0.00
45.00	1096.00	11.00	0.00
48.00	1108.00	12.00	0.00
51.00	1112.00	4.00	0.00
54.00	1116.00	4.00	0.00
57.00	1118.00	2.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1123.00	5.00	0.00
63.00	0.00	-1123.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	98.00	98.00
5.00	100.00	2.00
10.00	102.00	2.00
15.00	104.00	2.00
20.00	105.00	1.00
25.00	106.00	1.00
30.00	107.00	1.00
35.00	108.00	1.00
40.00	109.00	1.00
45.00	110.00	1.00
50.00	111.00	1.00
55.00	112.00	1.00
60.00	113.00	1.00
65.00	114.00	1.00
70.00	115.00	1.00
75.00	116.00	1.00
80.00	117.00	1.00
85.00	118.00	1.00
90.00	119.00	1.00
95.00	120.00	1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	489.00	489.00	0.00
6.00	627.00	138.00	0.00
9.00	735.00	108.00	0.00
12.00	786.00	51.00	0.00
15.00	834.00	48.00	0.00
18.00	870.00	36.00	0.00
21.00	894.00	24.00	0.00
24.00	917.00	23.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

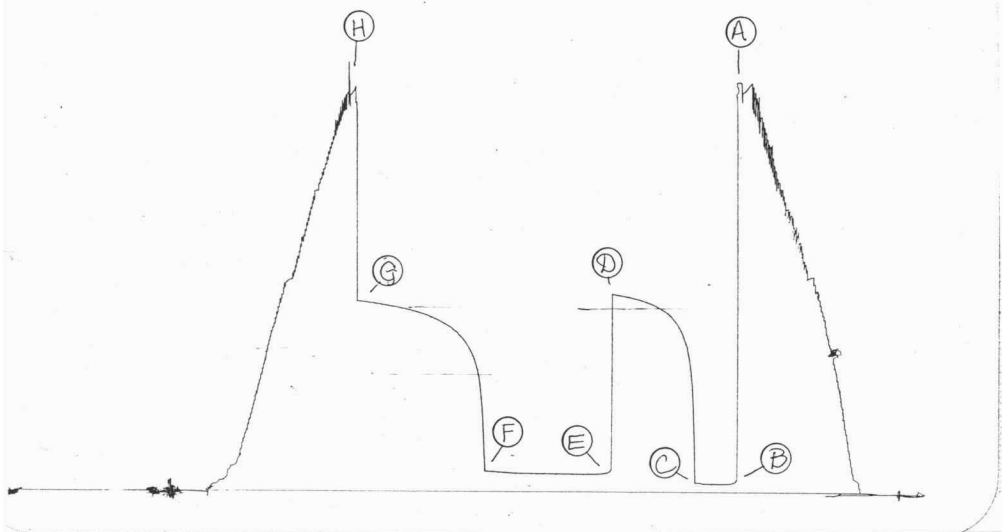
FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
27.00	931.00	14.00	0.00
30.00	945.00	14.00	0.00
33.00	965.00	20.00	0.00
36.00	973.00	8.00	0.00
39.00	985.00	12.00	0.00
42.00	998.00	13.00	0.00
45.00	1007.00	9.00	0.00
48.00	1014.00	7.00	0.00
51.00	1024.00	10.00	0.00
54.00	1029.00	5.00	0.00
57.00	1033.00	4.00	0.00
60.00	1037.00	4.00	0.00
63.00	1043.00	6.00	0.00
66.00	1047.00	4.00	0.00
69.00	1051.00	4.00	0.00
72.00	1056.00	5.00	0.00
75.00	1059.00	3.00	0.00
78.00	1064.00	5.00	0.00
81.00	1069.00	5.00	0.00
84.00	1071.00	2.00	0.00
87.00	1074.00	3.00	0.00
90.00	1079.00	5.00	0.00
93.00	1080.00	1.00	0.00
96.00	1081.00	1.00	0.00

DST#5 RBC#11518 INSIDE

TK# 20119

I.



DST#5 RBC#13629 OUTSIDE

TK# 20119

O.

