



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 20158

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

WICHITA, KANSAS 67201

Elevation 1503 GL Formation Lansing - KC Eff. Pay _____ Ft.

District Augusta Date 6-16-93 Customer Order No. _____

COMPANY NAME Pickrell Drilling Co., Inc.

ADDRESS 1010 N. Market Suite 205 Wichita, KS., 67202

LEASE AND WELL NO Maple "K" #1 COUNTY Kingman STATE KS. Sec. 30 Twp 29 Rge. 6

Mail Invoice To _____ Co. Name #1 Maple K Address _____ No. Copies Requested _____

Mail Charts To _____ Address _____ No. Copies Requested _____

Formation Test No. 1 Interval Tested From 3685 ft. to 3700 ft. Total Depth 3700 ft.

Packer Depth 3680 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3685 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3690 ft.

Recorder Number 13548 Cap. 4075

Bottom Recorder Depth (Outside) 3695 ft.

Recorder Number 13521 Cap. 4375

Below Straddle Recorder Depth _____ ft.

Recorder Number _____ Cap. _____

Drilling Contractor Pickrell Rig #3

Drill Collar Length 246' I. D. 2 1/4 in.

Mud Type Chemical Viscosity 44

Weight Pipe Length _____ I. D. _____ in.

Weight 9.1 Water Loss 10.4 cc.

Drill Pipe Length 3418' I. D. 3.8 in.

Chlorides 6,000 P.P.M.

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

Jars: Make _____ Serial Number _____

Anchor Length 15 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 11 in.

Blow: Weak, slowly increasing to 2" in Bucket

2nd Flow - No Blow, Flushed tool, slight Blow, Blow Died

Recovered 90 ft. of Muddy Water 40% mud 60% wtr

Recovered _____ ft. of trace of oil in top of tool

Recovered _____ ft. of

Recovered _____ ft. of

Recovered _____ ft. of

Chlorides 42,000 P.P.M. Sample Jars used _____ Remarks: _____

JUN 21 1993

Time On Location 3:30 A.M. Time Pick Up Tool 4:30 A.M. Time Off Location 11:00 A.M.

Time Set Packer(s) 6:15 P.M. Time Started Off Bottom 8:45 P.M. Maximum Temperature 122°

Initial Hydrostatic Pressure _____ (A) 1713 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 20 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 1213 P.S.I.

Final Flow Period _____ Minutes 30 (E) 91 P.S.I. to (F) 91 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 1182 P.S.I.

Final Hydrostatic Pressure _____ (H) 1713 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	\$

Thanks!

WESTERN TESTING CO., INC.

Pressure Data

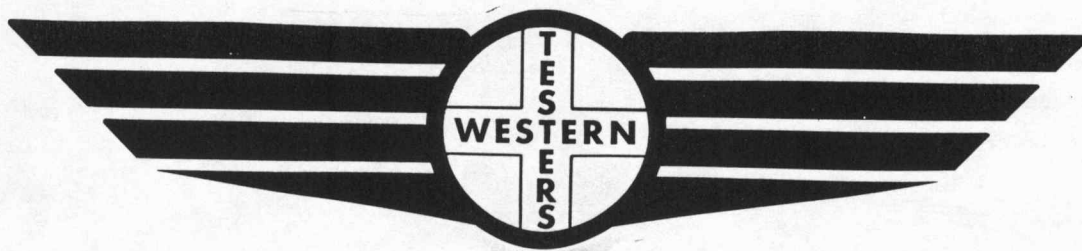
Date 6-16-82 Test Ticket No. 20158
 Recorder No. 12548 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>172</u> P.S.I.		M
B First Initial Flow Pressure	<u>123</u> P.S.I.		Mins. <u>10</u> Mins
C First Final Flow Pressure	<u>21</u> P.S.I.		Mins. <u>100</u> Mins
D Initial Closed-in Pressure	<u>1213</u> P.S.I.		Mins. <u>10</u> Mins
E Second Initial Flow Pressure	<u>131</u> P.S.I.		Mins. <u>10</u> Mins
F Second Final Flow Pressure	<u>96</u> P.S.I.		Mins. <u>10</u> Mins
G Final Closed-in Pressure	<u>1182</u> P.S.I.		
H Final Hydrostatic Mud	<u>1701</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>123</u>	0	<u>21</u>	0	<u>121</u>	0	<u>24</u>
P 2 5	<u>1215</u>	3	<u>446</u>	5	<u>89</u>	3	<u>123</u>
P 3 10	<u>18</u>	6	<u>253</u>	10	<u>89</u>	6	<u>232</u>
P 4 15	<u>20</u>	9	<u>621</u>	15	<u>1215</u>	9	<u>1018</u>
P 5 20	<u>25</u>	12	<u>1020</u>	20	<u>107</u>	12	<u>1090</u>
P 6 25	<u>28</u>	15	<u>1095</u>	25	<u>99</u>	15	<u>1124</u>
P 7 30	<u>31</u>	18	<u>1125</u>	30	<u>96</u>	18	<u>1144</u>
P 8 35		21	<u>1149</u>	35		21	<u>1156</u>
P 9 40		24	<u>1162</u>	40		24	<u>1166</u>
P10 45		27	<u>1172</u>	45		27	<u>1175</u>
P11 50		30	<u>1181</u>	50		30	<u>1180</u>
P12 55		33	<u>1189</u>	55		33	<u>1182</u>
P13 60		36	<u>1192</u>	60		36	
P14 65		39	<u>1198</u>	65		39	
P15 70		42	<u>1201</u>	70		42	
P16 75		45	<u>1204</u>	75		45	
P17 80		48	<u>1207</u>	80		48	
P18 85		51	<u>1209</u>	85		51	
P19 90		54	<u>1211</u>	90		54	
P20 95		57	<u>1212</u>	95		57	
100		60	<u>1213</u>	100		60	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800-688-7021**

DST REPORT

GENERAL INFORMATION

DATE	: 6/16/93	TICKET	: 20158
CUSTOMER	: PICKRELL DRILLING CO INC	LEASE	: MAPLE K
WELL	: #1 TEST: 1	GEOLOGIST	: KLAVER
ELEVATION	: 1503 GL	FORMATION	: LANSING - K C
SECTION	: 30	TOWNSHIP	: 29S
RANGE	: 6W	STATE	: KS
GAUGE SN#	: 13548	CLOCK	: 12
	COUNTY: KINGMAN		
	RANGE : 4075		

WELL INFORMATION

PERFORATION INTERVAL FROM:	3685.00 ft	TO:	3700.00 ft	TVD:	3700.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3690.0 ft		3695.0 ft		
TEMPERATURE:	122.0				
DRILL COLLAR LENGTH:	246.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3418.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	21.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	15.0 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:	3680.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	3685.0 ft	SIZE:		6.750 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 RIG 3	VISCOSITY :	44.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.400 cc
WEIGHT :	9.100 ppg	SERIAL NUMBER:	
CHLORIDES :	6000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK SLOWLY INCREASING TO A 2
INCH BLOW IN BUCKET. FINAL FLOW PERIOD NO BLOW -
FLUSHED TOOL - SLIGHT BLOW - DIED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	0.0	0.0	60.0	40.0	MUDDY WATER
0.0	0.0	0.0	0.0	0.0	TRACE OF OIL IN TOP TOOL
0.0	0.0	0.0	0.0	0.0	CHLORIDES 42000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.1770	STB		
WATER VOLUME:	0.2655	STB		
TOTAL FLUID :	0.4426	STB		
			TOTAL FLOW TIME:	60.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	10.6218 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1713.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	20.00	40.00
INITIAL SHUT-IN	60.00		1213.00
FINAL FLOW	30.00	91.00	91.00
FINAL SHUT-IN	30.00		1182.00

FINAL HYDROSTATIC PRESSURE: 1713.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1721.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	13.00	31.00
INITIAL SHUT-IN	60.00		1213.00
FINAL FLOW	30.00	131.00	96.00
FINAL SHUT-IN	33.00		1183.00

FINAL HYDROSTATIC PRESSURE: 1701.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 6/16/93	TICKET	: 20158
CUSTOMER	: PICKRELL DRILLING CO INC	LEASE	: MAPLE K
WELL	: #1	GEOLOGIST	: KLAVER
ELEVATION	: 1503 GL	FORMATION	: LANSING - K C
SECTION	: 30	TOWNSHIP	: 29S
RANGE	: 6W	STATE	: KS
GAUGE SN#	: 13548	CLOCK	: 12
	COUNTY: KINGMAN		
	RANGE : 4075		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	13.00	13.00
5.00	15.00	2.00
10.00	18.00	3.00
15.00	20.00	2.00
20.00	25.00	5.00
25.00	28.00	3.00
30.00	31.00	3.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	46.00	46.00	0.00
6.00	233.00	187.00	0.00
9.00	671.00	438.00	0.00
12.00	1020.00	349.00	0.00
15.00	1095.00	75.00	0.00
18.00	1125.00	30.00	0.00
21.00	1149.00	24.00	0.00
24.00	1162.00	13.00	0.00
27.00	1172.00	10.00	0.00
30.00	1181.00	9.00	0.00
33.00	1189.00	8.00	0.00
36.00	1193.00	4.00	0.00
39.00	1198.00	5.00	0.00
42.00	1201.00	3.00	0.00
45.00	1204.00	3.00	0.00
48.00	1207.00	3.00	0.00
51.00	1209.00	2.00	0.00
54.00	1211.00	2.00	0.00
57.00	1212.00	1.00	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	1213.00	1.00	0.00

FINAL FLOW

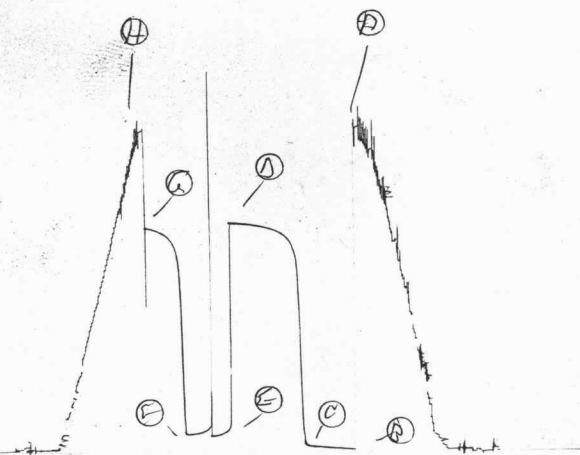
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	131.00	131.00
5.00	99.00	-32.00
10.00	89.00	-10.00
15.00	133.00	44.00
20.00	107.00	-26.00
25.00	99.00	-8.00
30.00	96.00	-3.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	163.00	163.00	0.00
6.00	733.00	570.00	0.00
9.00	1018.00	285.00	0.00
12.00	1090.00	72.00	0.00
15.00	1124.00	34.00	0.00
18.00	1144.00	20.00	0.00
21.00	1156.00	12.00	0.00
24.00	1166.00	10.00	0.00
27.00	1175.00	9.00	0.00
30.00	1180.00	5.00	0.00
33.00	1183.00	3.00	0.00

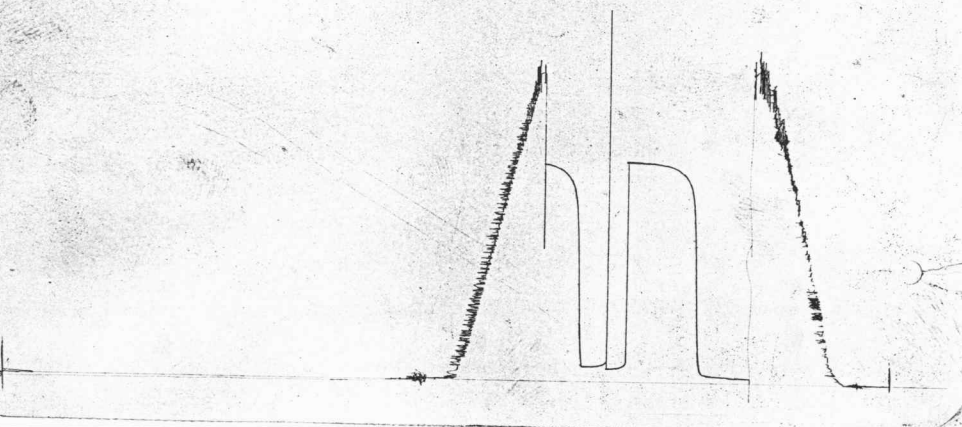
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20158

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

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET **Nº 20159**

Elevation 1503 GL Formation Kansas City Eff. Pay _____ Ft.

District Augusta Date 6-17-93 Customer Order No. _____

COMPANY NAME Pickrell Drilling Co Inc

ADDRESS 110 N. Market Suite 205 Wichita KS 67202

LEASE AND WELL NO. Maple K #1 COUNTY Kingman STATE KS Sec. 30 Twp. 29 Rge. 6

Mail Invoice To #1 Maple K Same No. Copies Requested _____
Co. Name Address

Mail Charts To Same No. Copies Requested _____
Address

Formation Test No. 2 Interval Tested From 3741 ft. to 3761 ft. Total Depth 3761 ft.

Packer Depth 3736 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3741 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3746 ft. Recorder Number 13548 Cap. 4075

Bottom Recorder Depth (Outside) 3751 ft. Recorder Number 13521 Cap. 4375

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

Drilling Contractor Pickrell Rig #3 Drill Collar Length 246 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 52 Weight Pipe Length _____ I. D. _____ in.

Weight 9.04 Water Loss 11.2 cc. Drill Pipe Length 3474 I. D. 3.8 in.

Chlorides 7,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 20 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 H in.

Blow: WPAK INCREASING TO 2" IN BUCKET
NO BLOW ON 2ND FLOW, FLUSHED TOOL, VERY SLIGHT BLOW 10 MIN AFTER FLUSH

Recovered 135 ft. of Muddy WTR 70% WTR 30% MUD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides 45,000 P.P.M. Sample Jars used _____ Remarks: _____

JUN 21 1993

Time On Location 8:00 A.M. Time Pick Up Tool 8:30 P.M. Time Off Location 2:00 P.M.

Time Set Packer(s) 9:40 A.M. Time Started Off Bottom 12:10 P.M. Maximum Temperature 124°

Initial Hydrostatic Pressure _____ (A) 1743 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 91 P.S.I. to (C) 60 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 732 P.S.I.

Final Flow Period _____ Minutes 30 (E) 111 P.S.I. to (F) 101 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 722 P.S.I.

Final Hydrostatic Pressure _____ (H) 1641 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 Kewer
Signature of Customer or his authorized representative

Western Representative Stuart Star

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	\$

Thanks

WESTERN TESTING CO., INC.

Pressure Data

Date 6-17-54
Recorder No. 6548

Test Ticket No. 10159
Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1758</u> P.S.I.			M
B First Initial Flow Pressure	<u>76</u> P.S.I.	First Flow Pressure	Mins. <u>NO</u>	Mins.
C First Final Flow Pressure	<u>76</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>NO</u>	Mins.
D Initial Closed-in Pressure	<u>76</u> P.S.I.	Second Flow Pressure	Mins. <u>NO</u>	Mins.
E Second Initial Flow Pressure	<u>150</u> P.S.I.	Final Closed-in Pressure	Mins. <u>22</u>	Mins.
F Second Final Flow Pressure	<u>110</u> P.S.I.			
G Final Closed-in Pressure	<u>742</u> P.S.I.			
H Final Hydrostatic Mud	<u>1667</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>96</u>	0	<u>71</u>	0	<u>130</u>	0	<u>110</u>
P 2 5	<u>78</u>	3	<u>675</u>	5	<u>107</u>	3	<u>662</u>
P 3 10	<u>71</u>	6	<u>200</u>	10	<u>138</u>	6	<u>204</u>
P 4 15	<u>7</u>	9	<u>712</u>	15	<u>116</u>	9	<u>216</u>
P 5 20	<u>7</u>	12	<u>221</u>	20	<u>110</u>	12	<u>225</u>
P 6 25	<u>71</u>	15	<u>246</u>	25	<u>110</u>	15	<u>232</u>
P 7 30		18	<u>232</u>	30		18	<u>236</u>
P 8 35		21	<u>236</u>	35		21	<u>238</u>
P 9 40		24	<u>239</u>	40		24	<u>239</u>
P10 45		27	<u>241</u>	45		27	<u>240</u>
P11 50		30	<u>243</u>	50		30	<u>241</u>
P12 55		33	<u>244</u>	55		33	<u>242</u>
P13 60		36	<u>245</u>	60		36	
P14 65		39	<u>245</u>	65		39	
P15 70		42	<u>246</u>	70		42	
P16 75		45	<u>246</u>	75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60	<u>246</u>	100		60	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 6/17/93	TICKET	: 20159
CUSTOMER	: PICKRELL DRILLING CO INC	LEASE	: MAPLE K
WELL	: #1	TEST: 2	GEOLOGIST: KLAVER
ELEVATION	: 1503 GL	FORMATION	: KANSAS CITY
SECTION	: 30	TOWNSHIP	: 29S
RANGE	: 6W	STATE	: KS
GAUGE SN#	: 13548	CLOCK	: 12
COUNTY	: KINGMAN		
RANGE	: 4075		

WELL INFORMATION

PERFORATION INTERVAL FROM:	3741.00 ft	TO:	3761.00 ft	TVD:	3761.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3746.0 ft		3751.0 ft		
TEMPERATURE:	124.0				
DRILL COLLAR LENGTH:	246.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3474.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	21.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	20.0 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:	3736.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	3741.0 ft	SIZE:		6.750 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 RIG 3	VISCOSITY :	52.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	11.200 cc
WEIGHT :	9.000 ppg	SERIAL NUMBER:	
CHLORIDES :	7000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK INCREASING BLOW TO 2
INCHES IN BUCKET. FINAL FLOW PERIOD NO BLOW -
FLUSHED TOOL - VERY SLIGHT BLOW IN 10 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
135.0	0.0	0.0	70.0	30.0	MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 45000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.1992	STB	AVERAGE WATER RATE:	15.9326	STB/D
WATER VOLUME:	0.4647	STB			
TOTAL FLUID :	0.6639	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1743.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	91.00	60.00
INITIAL SHUT-IN	60.00		732.00
FINAL FLOW	30.00	111.00	101.00
FINAL SHUT-IN	30.00		722.00

FINAL HYDROSTATIC PRESSURE: 1641.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1758.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	96.00	71.00
INITIAL SHUT-IN	60.00		746.00
FINAL FLOW	30.00	130.00	110.00
FINAL SHUT-IN	33.00		742.00

FINAL HYDROSTATIC PRESSURE: 1667.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 6/17/93	TICKET	: 20159
CUSTOMER	: PICKRELL DRILLING CO INC	LEASE	: MAPLE K
WELL	: #1	GEOLOGIST	: KLAVER
ELEVATION	: 1503 GL	FORMATION	: KANSAS CITY
SECTION	: 30	TOWNSHIP	: 29S
RANGE	: 6W	STATE	: KS
GAUGE SN#	: 13548	CLOCK	: 12
	COUNTY: KINGMAN		
	RANGE : 4075		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	96.00	96.00
5.00	78.00	-18.00
10.00	71.00	-7.00
15.00	71.00	0.00
20.00	71.00	0.00
25.00	71.00	0.00
30.00	71.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	675.00	675.00	0.00
6.00	700.00	25.00	0.00
9.00	712.00	12.00	0.00
12.00	721.00	9.00	0.00
15.00	726.00	5.00	0.00
18.00	732.00	6.00	0.00
21.00	736.00	4.00	0.00
24.00	739.00	3.00	0.00
27.00	741.00	2.00	0.00
30.00	743.00	2.00	0.00
33.00	744.00	1.00	0.00
36.00	745.00	1.00	0.00
39.00	745.00	0.00	0.00
42.00	746.00	1.00	0.00
45.00	746.00	0.00	0.00
48.00	746.00	0.00	0.00
51.00	746.00	0.00	0.00
54.00	746.00	0.00	0.00
57.00	746.00	0.00	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	746.00	0.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	130.00	130.00
5.00	107.00	-23.00
10.00	138.00	31.00
15.00	116.00	-22.00
20.00	110.00	-6.00
25.00	110.00	0.00
30.00	110.00	0.00

FINAL SHUT IN

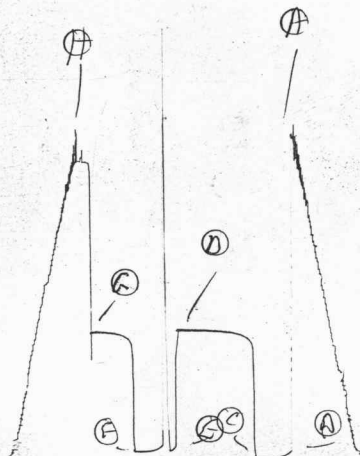
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	663.00	663.00	0.00
6.00	702.00	39.00	0.00
9.00	716.00	14.00	0.00
12.00	725.00	9.00	0.00
15.00	732.00	7.00	0.00
18.00	736.00	4.00	0.00
21.00	738.00	2.00	0.00
24.00	739.00	1.00	0.00
27.00	740.00	1.00	0.00
30.00	741.00	1.00	0.00
33.00	742.00	1.00	0.00

K4 J0159

13548

20159

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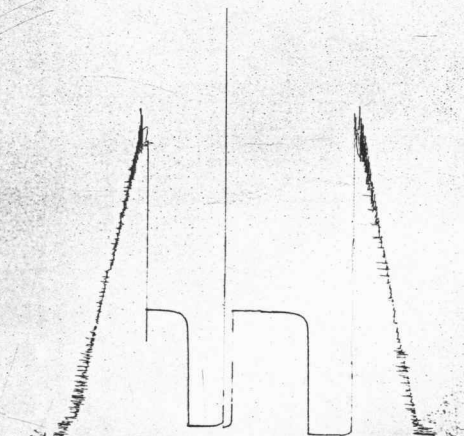


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13521

20159

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 20160

P. O. BOX 1599
WICHITA, KANSAS 67201

PHONE (316) 262-5861

Elevation 1503 GL Formation Mississippi Eff. Pay Ft.

District Augusta Date 6-18-93 Customer Order No.

COMPANY NAME Pickrell Drilling Co Inc

ADDRESS 110 N. Market, Suite 205, Wichita, KS 67202

LEASE AND WELL NO. Maple R#1 COUNTY Kingman STATE KS Sec. 30 Twp. 29 Rge. 6

Mail Invoice To Co. Name #1 Maple Same Address No. Copies Requested

Mail Charts To #1 Maple Same Address No. Copies Requested

Formation Test No. 3 Interval Tested From 4121 ft. to 4139 ft. Total Depth 4139 ft.

Packer Depth 4116 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4121 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4126 ft. Recorder Number 13548 Cap. 4075

Bottom Recorder Depth (Outside) 4131 ft. Recorder Number 13521 Cap. 4325

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Pickrell Rig #3 Drill Collar Length 246' I. D. 2 1/4 in.

Mud Type Chemical Viscosity 47 Weight Pipe Length I. D. in.

Weight 9.1 Water Loss 12.8 cc. Drill Pipe Length 3854 I. D. 3.8 in.

Chlorides 8,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 18 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 11 in.

Blow: off Btm of Bucket. GTS in 8 minutes on 2nd Flow

Recovered 7.88 MCFD Thru 1/4" ORIFICE

Recovered 90 ft. of Very slightly o.i. speckled mud 10% o.i.

Recovered ft. of 99% mud

Recovered ft. of

Recovered ft. of

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

JUN 22 1993

Time On Location 6:15 A.M. Time Pick Up Tool 6:45 A.M. Time Off Location A.M.

Time Set Packer(s) 8:10 P.M. Time Started Off Bottom 12:40 A.M. Maximum Temperature 133°

Initial Hydrostatic Pressure (A) 2040 P.S.I.

Initial Flow Period Minutes 30 (B) 91 P.S.I. to (C) 60 P.S.I.

Initial Closed In Period Minutes 60 (D) 1213 P.S.I.

Final Flow Period Minutes 90 (E) 91 P.S.I. to (F) 60 P.S.I.

Final Closed In Period Minutes 90 (G) 1162 P.S.I.

Final Hydrostatic Pressure (H) 1958 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: Bell [Signature]

Signature of Customer or his authorized representative

Western Representative: Stuart Stover

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	\$



GAS FLOW REPORT

Nº 5870

Date 6-18-93 Ticket _____ Company Pickrell Dnls Co
 Well Name and No. Maple K #1 Dst No. 3 Interval Tested 4/21 - 4/39
 County Kingman State KS Sec. 30 Twp. 29 Rg. 6

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

SECOND FLOW

675 IN 8 MIN ON 2ND FLOW

<u>20</u>	<u>9.0</u>	<u>1/4</u>	<u>5.05</u>	<u>MCFD</u>
<u>30</u>	<u>18.0</u>	<u>1/4</u>	<u>7.12</u>	<u>"</u>
<u>40</u>	<u>19.0</u>	<u>1/4</u>	<u>7.32</u>	<u>"</u>
<u>50</u>	<u>20.0</u>	<u>1/4</u>	<u>7.51</u>	<u>"</u>
<u>60</u>	<u>22.0</u>	<u>1/4</u>	<u>7.88</u>	<u>"</u>
<u>70</u>	<u>22.0</u>	<u>1/4</u>	<u>7.88</u>	<u>"</u>
<u>80</u>	<u>22.0</u>	<u>1/4</u>	<u>7.88</u>	<u>"</u>
<u>90</u>	<u>22.0</u>	<u>1/4</u>	<u>7.88</u>	<u>"</u>

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME

Authorized by

WESTERN TESTING CO., INC.

Pressure Data

Date 6-18-92

Test Ticket No. 20160

Recorder No. 13548

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1934</u> P.S.I.			
B First Initial Flow Pressure	<u>75</u> P.S.I.	First Flow Pressure	Mins. <u>25</u> Mins.	
C First Final Flow Pressure	<u>61</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>100</u> Mins.	
D Initial Closed-in Pressure	<u>1228</u> P.S.I.	Second Flow Pressure	Mins. <u>90</u> Mins.	
E Second Initial Flow Pressure	<u>80</u> P.S.I.	Final Closed-in Pressure	Mins. <u>90</u> Mins.	
F Second Final Flow Pressure	<u>60</u> P.S.I.			
G Final Closed-in Pressure	<u>1172</u> P.S.I.			
H Final Hydrostatic Mud	<u>1928</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>75</u>	0	<u>61</u>	0	<u>80</u>	0	<u>60</u>
P 2 5	<u>75</u>	3	<u>1934</u>	5	<u>80</u>	3	<u>1228</u>
P 3 10	<u>66</u>	6	<u>244</u>	10	<u>69</u>	6	<u>252</u>
P 4 15	<u>62</u>	9	<u>499</u>	15	<u>63</u>	9	<u>260</u>
P 5 20	<u>61</u>	12	<u>627</u>	20	<u>63</u>	12	<u>455</u>
P 6 25	<u>61</u>	15	<u>224</u>	25	<u>63</u>	15	<u>584</u>
P 7 30		18	<u>812</u>	30	<u>63</u>	18	<u>608</u>
P 8 35		21	<u>885</u>	35	<u>63</u>	21	<u>670</u>
P 9 40		24	<u>927</u>	40	<u>63</u>	24	<u>722</u>
P10 45		27	<u>996</u>	45	<u>63</u>	27	<u>779</u>
P11 50		30	<u>1035</u>	50	<u>63</u>	30	<u>832</u>
P12 55		33	<u>1069</u>	55	<u>63</u>	33	<u>877</u>
P13 60		36	<u>1098</u>	60	<u>63</u>	36	<u>917</u>
P14 65		39	<u>1122</u>	65	<u>63</u>	39	<u>942</u>
P15 70		42	<u>1148</u>	70	<u>63</u>	42	<u>971</u>
P16 75		45	<u>1165</u>	75	<u>63</u>	45	<u>994</u>
P17 80		48	<u>1181</u>	80	<u>63</u>	48	<u>1018</u>
P18 85		51	<u>1194</u>	85	<u>63</u>	51	<u>1035</u>
P19 90		54	<u>1209</u>	90	<u>63</u>	54	<u>1055</u>
P20 95		57	<u>1217</u>	95	<u>63</u>	57	<u>1072</u>
100		60	<u>1228</u>	100	<u>63</u>	60	<u>1085</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 20160

Recorder No. _____ Capacity _____ Location _____ Ft.

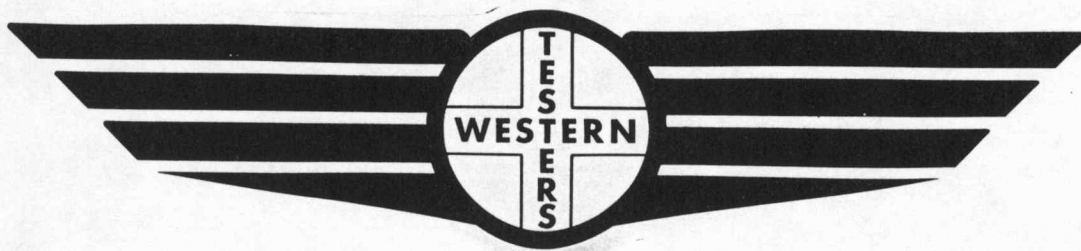
Clock No. _____ Elevation _____ Well Temperature _____ °F

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	1098
P 2 110	_____	66	_____	110	_____	66	1112
P 3 115	_____	69	_____	115	_____	69	1124
P 4 120	_____	72	_____	120	_____	72	1138
P 5 125	_____	75	_____	125	_____	75	1140
P 6 130	_____	78	_____	130	_____	78	1147
P 7 135	_____	81	_____	135	_____	81	1154
P 8 140	_____	84	_____	140	_____	84	1162
P 9 145	_____	87	_____	145	_____	87	1167
P10 150	_____	90	_____	150	_____	90	1172
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	: 06-18-93	TICKET	: 20160
CUSTOMER	: PICKRELL DRILLING CO.INC.	LEASE	: MAPLE "K"
WELL	: #1	TEST:	3
ELEVATION:	1503 G.L.	GEOLOGIST:	BILL KLEVER
SECTION	: 30	FORMATION:	MISSISSIPPI
RANGE	: 6W	TOWNSHIP	: 29S
COUNTY:	KINGMAN	STATE	: KS
GAUGE SN#:	13548	RANGE	: 4075
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4121.00 ft	TO:	4139.00 ft	TVD:	4139.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	4126.0 ft		4131.0 ft		
TEMPERATURE:	133.0				
DRILL COLLAR LENGTH:	246.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3854.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	21.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	18.0 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:	4116.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	4121.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	PICKRELL #3	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	12.800 cc
WEIGHT :	9.100 ppg	SERIAL NUMBER:	
CHLORIDES :	8000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

BLOW OFF BOTTOM OF BUCKET. GAS TO SURFACE IN 8 MINUTES ON FINAL FLOW PERIOD. SEE ATTACHED SHEET FOR GAS MEASUREMENTS.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	1.0	0.0	0.0	99.0	V. SLI. OIL SPECKED MUD

RATE INFORMATION

OIL VOLUME:	0.0044 STB	TOTAL FLOW TIME:	115.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	5.5418 STB/D
MUD VOLUME:	0.4381 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.4426 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2040.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	91.00	60.00
INITIAL SHUT-IN	60.00		1213.00
FINAL FLOW	90.00	91.00	60.00
FINAL SHUT-IN	90.00		1162.00

FINAL HYDROSTATIC PRESSURE: 1958.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1934.00

Description	Duration	p1	p End
INITIAL FLOW	25.00	75.00	61.00
INITIAL SHUT-IN	60.00		1228.00
FINAL FLOW	90.00	80.00	63.00
FINAL SHUT-IN	90.00		1172.00

FINAL HYDROSTATIC PRESSURE: 1928.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 06-18-93	TICKET : 20160
CUSTOMER : PICKRELL DRILLING CO. INC.	LEASE : MAPLE "K"
WELL : #1	GEOLOGIST: BILL KLEVER
ELEVATION: 1503 G.L.	FORMATION: MISSISSIPPI
SECTION : 30	TOWNSHIP : 29S
RANGE : 6W	STATE : KS
GAUGE SN#: 13548	CLOCK : 12
COUNTY: KINGMAN	
RANGE : 4075	

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
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SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
20 MIN	MERLA	0.250	9"OF WATER	5050 SCF/D
30 MIN.	MERLA	0.250	18" OF WATER	7120 SCF/D
40 MIN.	MERLA	0.250	19"OF WATER	7320 SCF/D
50 MIN.	MERLA	0.250	20"OF WATER	7510 SCF/D
60 MIN.	MERLA	0.250	22"OF WATER	7880 SCF/D
70 MIN.	MERLA	0.250	22"OF WATER	7880 SCF/D
80 MIN.	MERLA	0.250	22"OF WATER	7880 SCF/D
90 MIN.	MERLA	0.250	22"OF WATER	7880 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 06-18-93	TICKET : 20160
CUSTOMER : PICKRELL DRILLING CO. INC.	LEASE : MAPLE "K"
WELL : #1	GEOLOGIST: BILL KLEVER
ELEVATION: 1503 G.L.	FORMATION: MISSISSIPPI
SECTION : 30	TOWNSHIP : 29S
RANGE : 6W	STATE : KS
GAUGE SN#: 13548	CLOCK : 12
COUNTY: KINGMAN	
RANGE : 4075	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	75.00	75.00
5.00	75.00	0.00
10.00	66.00	-9.00
15.00	62.00	-4.00
20.00	61.00	-1.00
25.00	61.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	193.00	193.00	0.00
6.00	344.00	151.00	0.00
9.00	499.00	155.00	0.00
12.00	627.00	128.00	0.00
15.00	724.00	97.00	0.00
18.00	812.00	88.00	0.00
21.00	885.00	73.00	0.00
24.00	937.00	52.00	0.00
27.00	996.00	59.00	0.00
30.00	1035.00	39.00	0.00
33.00	1069.00	34.00	0.00
36.00	1098.00	29.00	0.00
39.00	1122.00	24.00	0.00
42.00	1148.00	26.00	0.00
45.00	1165.00	17.00	0.00
48.00	1181.00	16.00	0.00
51.00	1196.00	15.00	0.00
54.00	1209.00	13.00	0.00
57.00	1217.00	8.00	0.00
60.00	1228.00	11.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	80.00	80.00
5.00	90.00	10.00
10.00	69.00	-21.00
15.00	63.00	-6.00
20.00	63.00	0.00
25.00	63.00	0.00
30.00	63.00	0.00
35.00	63.00	0.00
40.00	63.00	0.00
45.00	63.00	0.00
50.00	63.00	0.00
55.00	63.00	0.00
60.00	63.00	0.00
65.00	63.00	0.00
70.00	63.00	0.00
75.00	63.00	0.00
80.00	63.00	0.00
85.00	63.00	0.00
90.00	63.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	146.00	146.00	0.00
6.00	253.00	107.00	0.00
9.00	360.00	107.00	0.00
12.00	455.00	95.00	0.00
15.00	534.00	79.00	0.00
18.00	608.00	74.00	0.00
21.00	670.00	62.00	0.00
24.00	722.00	52.00	0.00
27.00	779.00	57.00	0.00
30.00	833.00	54.00	0.00
33.00	877.00	44.00	0.00
36.00	917.00	40.00	0.00
39.00	943.00	26.00	0.00
42.00	971.00	28.00	0.00
45.00	994.00	23.00	0.00
48.00	1018.00	24.00	0.00
51.00	1035.00	17.00	0.00
54.00	1055.00	20.00	0.00
57.00	1072.00	17.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

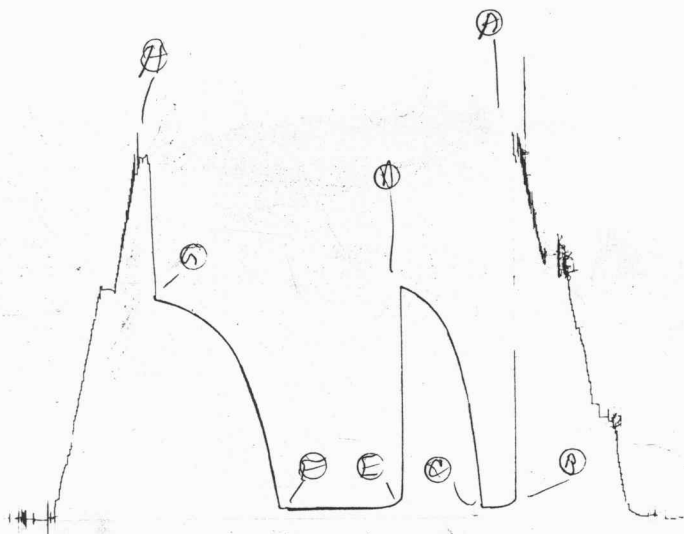
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	1085.00	13.00	0.00
63.00	1098.00	13.00	0.00
66.00	1112.00	14.00	0.00
69.00	1121.00	9.00	0.00
72.00	1128.00	7.00	0.00
75.00	1140.00	12.00	0.00
78.00	1147.00	7.00	0.00
81.00	1156.00	9.00	0.00
84.00	1163.00	7.00	0.00
87.00	1167.00	4.00	0.00
90.00	1172.00	5.00	0.00

KT JD/60

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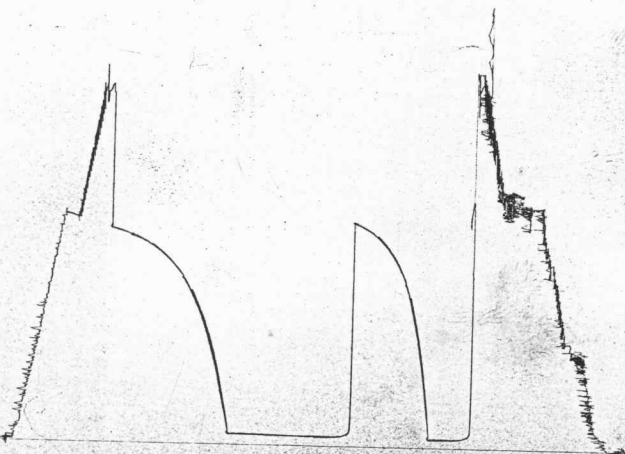


KT JD/60

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N° 20161

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

Elevation 1503 GL Formation Mississippi Eff. Pay _____ Ft.

District Augusta Date 6-19-93 Customer Order No. _____

COMPANY NAME Pickrell Drilling Co Inc

ADDRESS 110 N. Market Suite 205 Wichita KS 67202

LEASE AND WELL NO. Maple K #1 COUNTY Kingman STATE KS Sec. 30 Twp. 29 Rge. 6

Mail Invoice To #1 Maple K Same Address No. Copies Requested _____

Mail Charts To _____ Same Address No. Copies Requested _____

Formation Test No. 4 Interval Tested From 4139 ft. to 4159 ft. Total Depth 4159 ft.

Packer Depth 4134 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4139 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4144 ft. Recorder Number 13548 Cap. 4025

Bottom Recorder Depth (Outside) 4149 ft. Recorder Number 13521 Cap. 4375

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

Drilling Contractor Pickrell Rig #3 Drill Collar Length 246' I. D. 2 1/4 in.

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

Weight 9.0 Water Loss 13.6 cc. Drill Pipe Length 3870' 387' I. D. 3.8 in.

Chlorides 9,000 P.P.M. Test Tool Length _____ ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 20 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 2 7/8 in. Tool Joint Size 4 1/2 x H in.

Blow: OFF Btm of Bucket. GTS IN 13 MINUTES ON 2ND FLOW

Recovered _____ ft. of 3.37 mCFD Thru 1/4" orifice

Recovered 215 ft. of Heavy oil Cut Gassy mud - Top middle Btm

Recovered 120 ft. of Very Slightly oil Cut wtr. 30% oil Same 30% oil

Recovered _____ ft. of 2% oil 10% mud 88% wtr 20% wtr " 50% wtr

Recovered _____ ft. of _____ 50% mud " 20% mud

Chlorides 70,000 P.P.M. Sample Jars used _____ Remarks: _____

JUN 22 1993

Time On Location _____ A.M. Time Pick Up Tool 8:30 A.M. Time Off Location 5:30 A.M.

Time Set Packer(s) 10:10 A.M. Time Started Off Bottom 2:40 A.M. Maximum Temperature 133°

Initial Hydrostatic Pressure _____ (A) 1989 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 101 P.S.I. to (C) 101 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 1142 P.S.I.

Final Flow Period _____ Minutes 90 (E) 111 P.S.I. to (F) 131 P.S.I.

Final Closed In Period _____ Minutes 90 (G) 1111 P.S.I.

Final Hydrostatic Pressure _____ (H) 2038 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 Klawer
Signature of Customer or his authorized representative

Western Representative Stuart S. Low

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	\$



GAS FLOW REPORT

No 5871

Date 6-19-93 Ticket 20161 Company Pickrell Drilling Co.
 Well Name and No. Maple "K" #1 Dst No. 4 Interval Tested 4139-59
 County KINGMAN State KANSAS Sec. 30 Twp. 29 Rg. 6

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
--------------------	-------------------------------------	-----------------	------------------------	------------------------------	---------------------

PRE FLOW

SECOND FLOW

Inches Wtr.		GTS in 13 minutes			
20	5.0	1/4"		3.71	MCFD
30	6.0			4.12	
40	6.0			4.12	
50	5.5			3.95	
60	5.0			3.71	
70	4.5			3.58	
80	4.0			3.37	
90	4.0	1/4"		3.37	

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 6-19-92 Test Ticket No. 20161
 Recorder No. 13548 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1943</u> P.S.I.			
B First Initial Flow Pressure	<u>91</u> P.S.I.	First Flow Pressure	Mins. <u>10</u>	Mins.
C First Final Flow Pressure	<u>91</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>20</u>	Mins.
D Initial Closed-in Pressure	<u>1151</u> P.S.I.	Second Flow Pressure	Mins. <u>30</u>	Mins.
E Second Initial Flow Pressure	<u>118</u> P.S.I.	Final Closed-in Pressure	Mins. <u>30</u>	Mins.
F Second Final Flow Pressure	<u>128</u> P.S.I.			
G Final Closed-in Pressure	<u>1153</u> P.S.I.			
H Final Hydrostatic Mud	<u>1934</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>91</u>	0	<u>91</u>	0	<u>118</u>	0	<u>128</u>
P 2 5		3	<u>182</u>	5		3	<u>272</u>
P 3 10		6	<u>332</u>	10		6	<u>432</u>
P 4 15		9	<u>462</u>	15		9	<u>550</u>
P 5 20		12	<u>590</u>	20		12	<u>627</u>
P 6 25		15	<u>680</u>	25		15	<u>694</u>
P 7 30	<u>91</u>	18	<u>764</u>	30	<u>118</u>	18	<u>747</u>
P 8 35		21	<u>852</u>	35	<u>119</u>	21	<u>791</u>
P 9 40		24	<u>890</u>	40	<u>119</u>	24	<u>819</u>
P10 45		27	<u>936</u>	45	<u>119</u>	27	<u>860</u>
P11 50		30	<u>972</u>	50	<u>120</u>	30	<u>888</u>
P12 55		33	<u>1005</u>	55	<u>121</u>	33	<u>915</u>
P13 60		36	<u>1032</u>	60	<u>122</u>	36	<u>927</u>
P14 65		39	<u>1051</u>	65	<u>123</u>	39	<u>951</u>
P15 70		42	<u>1072</u>	70	<u>124</u>	42	<u>968</u>
P16 75		45	<u>1091</u>	75	<u>125</u>	45	<u>987</u>
P17 80		48	<u>1108</u>	80	<u>126</u>	48	<u>1002</u>
P18 85		51	<u>1120</u>	85	<u>127</u>	51	<u>1017</u>
P19 90		54	<u>1132</u>	90	<u>128</u>	54	<u>1028</u>
P20 95		57	<u>1144</u>	95		57	<u>1029</u>
100		60	<u>1151</u>	100		60	<u>1050</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____ Test Ticket No. 10161

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	1060
P 2 110		66		110		66	1067
P 3 115		69		115		69	1079
P 4 120		72		120		72	1086
P 5 125		75		125		75	1091
P 6 130		78		130		78	1099
P 7 135		81		135		81	1107
P 8 140		84		140		84	1113
P 9 145		87		145		87	1117
P10 150		90		150		90	1122
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	: 06-19-93	TICKET	: 20161
CUSTOMER	: PICKRELL DRILLING CO.INC.	LEASE	: MAPLE "K"
WELL	: #1	TEST: 4	GEOLOGIST: BILL KLEVER
ELEVATION	: 1503 G.L.	FORMATION	: MISSISSIPPI
SECTION	: 30	TOWNSHIP	: 29S
RANGE	: 6W	STATE	: KS
GAUGE SN#	: 13548	RANGE	: 4075
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4139.00 ft	TO:	4159.00 ft	TVD:	4159.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	4144.0 ft		4149.0 ft		
TEMPERATURE:	133.0				
DRILL COLLAR LENGTH:	246.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	3872.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	21.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	20.0 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:	4134.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	4139.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	PICKRELL #3	VISCOSITY :	51.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	13.600 cc
WEIGHT :	9.000 ppg	SERIAL NUMBER:	
CHLORIDES :	9000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

BLOW OFF BOTTOM OF BUCKET. GAS TO SURFACE IN 13 MINUTES ON FINAL FLOW PERIOD. SEE ATTACHED SHEET FOR GAS MEASUREMENTS.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
215.0	30.0	0.0	30.0	40.0	H. OIL CUT GASSY MUD
120.0	2.0	0.0	88.0	10.0	V. SLI. OIL CUT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 70000 PPM

RATE INFORMATION

OIL VOLUME:	0.5722 STB	
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME: 120.0000 min.
MUD VOLUME:	0.8062 STB	AVERAGE OIL RATE: 11.3650 STB/D
WATER VOLUME:	1.0797 STB	AVERAGE WATER RATE: 18.1315 STB/D
TOTAL FLUID :	2.4580 STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1989.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	101.00	101.00
INITIAL SHUT-IN	60.00		1142.00
FINAL FLOW	90.00	111.00	131.00
FINAL SHUT-IN	90.00		1111.00

FINAL HYDROSTATIC PRESSURE: 2038.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1943.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	91.00	91.00
INITIAL SHUT-IN	60.00		1151.00
FINAL FLOW	90.00	118.00	128.00
FINAL SHUT-IN	90.00		1123.00

FINAL HYDROSTATIC PRESSURE: 1934.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 06-19-93	TICKET : 20161
CUSTOMER : PICKRELL DRILLING CO.INC.	LEASE : MAPLE "K"
WELL : #1	GEOLOGIST: BILL KLEVER
ELEVATION: 1503 G.L.	FORMATION: MISSISSIPPI
SECTION : 30	TOWNSHIP : 29S
RANGE : 6W	STATE : KS
GAUGE SN#: 13548	CLOCK : 12
COUNTY: KINGMAN	
RANGE : 4075	

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
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SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
20 MIN	MERLA	0.250	5" OF WATER	3710 SCF/D
30 MIN.	MERLA	0.250	6" OF WATER	4120 SCF/D
40 MIN.	MERLA	0.250	6" OF WATER	4120 SCF/D
50 MIN.	MERLA	0.250	5.5"OF WATER	3950 SCF/D
60 MIN.	MERLA	0.250	5" OF WATER	3710 SCF/D
70 MIN.	MERLA	0.250	4.5"OF WATER	3580 SCF/D
80 MIN.	MERLA	0.250	4" OF WATER	3370 SCF/D
90 MIN.	MERLA	0.250	4" OF WATER	3370 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 06-19-93	TICKET	: 20161
CUSTOMER	: PICKRELL DRILLING CO.INC.	LEASE	: MAPLE "K"
WELL	: #1	GEOLOGIST	: BILL KLEVER
ELEVATION	: 1503 G.L.	FORMATION	: MISSISSIPPI
SECTION	: 30	TOWNSHIP	: 29S
RANGE	: 6W	STATE	: KS
GAUGE SN#	: 13548	CLOCK	: 12
	COUNTY: KINGMAN		
	RANGE : 4075		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	91.00	91.00
5.00	91.00	0.00
10.00	91.00	0.00
15.00	91.00	0.00
20.00	91.00	0.00
25.00	91.00	0.00
30.00	91.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	182.00	182.00	0.00
6.00	333.00	151.00	0.00
9.00	463.00	130.00	0.00
12.00	590.00	127.00	0.00
15.00	680.00	90.00	0.00
18.00	766.00	86.00	0.00
21.00	833.00	67.00	0.00
24.00	890.00	57.00	0.00
27.00	936.00	46.00	0.00
30.00	973.00	37.00	0.00
33.00	1005.00	32.00	0.00
36.00	1033.00	28.00	0.00
39.00	1051.00	18.00	0.00
42.00	1073.00	22.00	0.00
45.00	1091.00	18.00	0.00
48.00	1108.00	17.00	0.00
51.00	1120.00	12.00	0.00
54.00	1132.00	12.00	0.00
57.00	1144.00	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	1151.00	7.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	118.00	118.00
5.00	118.00	0.00
10.00	118.00	0.00
15.00	118.00	0.00
20.00	118.00	0.00
25.00	118.00	0.00
30.00	118.00	0.00
35.00	119.00	1.00
40.00	119.00	0.00
45.00	119.00	0.00
50.00	120.00	1.00
55.00	121.00	1.00
60.00	122.00	1.00
65.00	123.00	1.00
70.00	124.00	1.00
75.00	125.00	1.00
80.00	126.00	1.00
85.00	127.00	1.00
90.00	128.00	1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	277.00	277.00	0.00
6.00	433.00	156.00	0.00
9.00	550.00	117.00	0.00
12.00	627.00	77.00	0.00
15.00	694.00	67.00	0.00
18.00	747.00	53.00	0.00
21.00	791.00	44.00	0.00
24.00	819.00	28.00	0.00
27.00	860.00	41.00	0.00
30.00	888.00	28.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

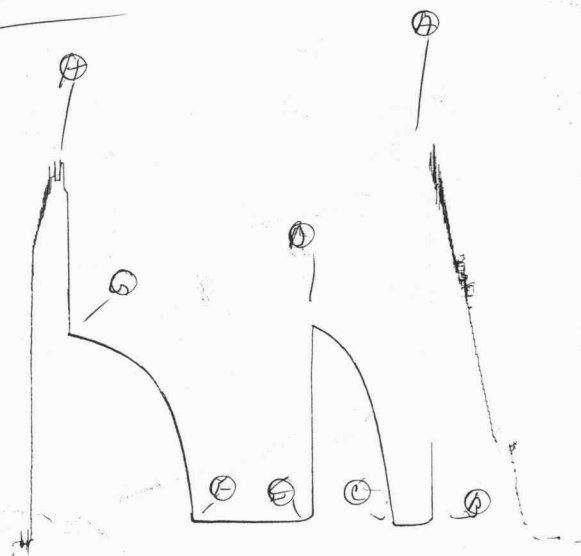
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
33.00	915.00	27.00	0.00
36.00	937.00	22.00	0.00
39.00	951.00	14.00	0.00
42.00	968.00	17.00	0.00
45.00	987.00	19.00	0.00
48.00	1003.00	16.00	0.00
51.00	1017.00	14.00	0.00
54.00	1028.00	11.00	0.00
57.00	1039.00	11.00	0.00
60.00	1050.00	11.00	0.00
63.00	1060.00	10.00	0.00
66.00	1067.00	7.00	0.00
69.00	1079.00	12.00	0.00
72.00	1086.00	7.00	0.00
75.00	1091.00	5.00	0.00
78.00	1099.00	8.00	0.00
81.00	1107.00	8.00	0.00
84.00	1113.00	6.00	0.00
87.00	1117.00	4.00	0.00
90.00	1123.00	6.00	0.00

KT 20161

13548

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET N^o 20162P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201Elevation 1503 GL Formation Mississippi Eff. Pay _____ Ft.District Augusta Date 6-20-93 Customer Order No. _____COMPANY NAME Pickrell Drilling Co IncADDRESS 110 N. Market Suite 205 Wichita KS 67202LEASE AND WELL NO. Maple "K" #1 COUNTY Kingman STATE KS Sec. 30 Twp. 29 Rge. 6Mail Invoice To _____ Co. Name #1 Maple Address Same No. Copies Requested _____Mail Charts To _____ Address Same No. Copies Requested _____Formation Test No. 5 Interval Tested From 4159 ft. to 4179 ft. Total Depth 4179 ft.Packer Depth 4154 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.Packer Depth 4159 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4164 ft. Recorder Number 13548 Cap. 4075Bottom Recorder Depth (Outside) 4169 ft. ~~Recorder Number~~ 13521 Cap. 4325

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

Drilling Contractor Pickrell #3 Drill Collar Length 246 ' I. D. 2 1/4 in.Mud Type Chemical Viscosity 51 Weight Pipe Length _____ I. D. _____ in.Weight 9.0 Water Loss 13.6 cc. Drill Pipe Length 3892 ' I. D. 3.8 in.Chlorides 9,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.Jars: Make _____ Serial Number _____ Anchor Length 20 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: off Btm of Bucket. GTS in 45 minutes on Initials
Shut IN.Recovered 240 ft. of Heavy o.i. Cut Gassy mud 40% o.i. 20% wtr 40% mudRecovered 60 ft. of Slightly o.i. Cut muddy wtr - 3% o.i. 5% mud 92% wtrRecovered 120 ft. of Salt wtrRecovered _____ ft. of 4.45 MCED Thru 1/4" orifice

Recovered _____ ft. of _____

Chlorides 105,000 P.P.M. Sample Jars used _____ Remarks: Read Btm chartTime On Location 10:30 A.M. Time Pick Up Tool 11:00 A.M. Time Off Location _____ A.M.Time Set Packer(s) 12:50 A.M. Time Started Off Bottom 5:20 A.M. Maximum Temperature 133°Initial Hydrostatic Pressure _____ (A) 2089 P.S.I.Initial Flow Period _____ Minutes 30 (B) 110 P.S.I. to (C) 121 P.S.I.Initial Closed In Period _____ Minutes 60 (D) 1127 P.S.I.Final Flow Period _____ Minutes 90 (E) 143 P.S.I. to (F) 188 P.S.I.Final Closed In Period _____ Minutes 90 (G) 1127 P.S.I.Final Hydrostatic Pressure _____ (H) 2111 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 representativeWestern Representative Stuart Stone

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	\$



GAS FLOW REPORT

N^o 5872

Date 6-20-93 Ticket _____ Company Pickrell Drilling Co
 Well Name and No. Maple K #1 Dst No. 5 Interval Tested 4159-79
 County Kingman State Kans. Sec. 30 Twp. 29 Rg. 6

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

SECOND FLOW

Time	INCH Wtr	Size of Orifice	GTS IN 45 MINUTES ON Initial Shut In.	Flow Rate
10	7.0	1/4"	4.45	mcfd
20	10.0	1/4"	5.32	
30	12.0	1/4"	5.86	
40	11.0	1/4"	5.60	
50	10.0	1/4"	5.32	
60	9.0	1/4"	5.05	
70	9.0	1/4"	5.05	
80	7.0	1/4"	4.45	
90	7.0	1/4"	4.45	

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 6-20-92 Test Ticket No. 20162
 Recorder No. 1254 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2100</u> P.S.I.		M
B First Initial Flow Pressure	<u>101</u> P.S.I.		Mins. <u>50</u> Mins.
C First Final Flow Pressure	<u>116</u> P.S.I.		Mins. <u>62</u> Mins.
D Initial Closed-in Pressure	<u>1134</u> P.S.I.		Mins. <u>90</u> Mins.
E Second Initial Flow Pressure	<u>145</u> P.S.I.		Mins. <u>90</u> Mins.
F Second Final Flow Pressure	<u>185</u> P.S.I.		
G Final Closed-in Pressure	<u>1144</u> P.S.I.		
H Final Hydrostatic Mud	<u>2078</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>101</u>	0	<u>116</u>	0	<u>145</u>	0	<u>185</u>
P 2 5	<u>2</u>	3	<u>127</u>	5	<u>2</u>	3	<u>545</u>
P 3 10	<u>2</u>	6	<u>201</u>	10	<u>2</u>	6	<u>491</u>
P 4 15	<u>101</u>	9	<u>294</u>	15	<u>145</u>	9	<u>581</u>
P 5 20	<u>106</u>	12	<u>353</u>	20 <u>147</u>	<u>148</u>	12	<u>649</u>
P 6 25	<u>111</u>	15	<u>480</u>	25	<u>150</u>	15	<u>697</u>
P 7 30	<u>116</u>	18	<u>574</u>	30	<u>156</u>	18	<u>749</u>
P 8 35		21	<u>641</u>	35	<u>162</u>	21	<u>785</u>
P 9 40		24	<u>708</u>	40	<u>165</u>	24	<u>822</u>
P10 45		27	<u>722</u>	45	<u>167</u>	27	<u>861</u>
P11 50		30	<u>808</u>	50	<u>168</u>	30	<u>894</u>
P12 55		33	<u>875</u>	55	<u>169</u>	33	<u>911</u>
P13 60		36	<u>918</u>	60	<u>170</u>	36	<u>932</u>
P14 65		39	<u>959</u>	65	<u>172</u>	39	<u>957</u>
P15 70		42	<u>989</u>	70	<u>174</u>	42	<u>980</u>
P16 75		45	<u>1017</u>	75	<u>176</u>	45	<u>999</u>
P17 80		48	<u>1038</u>	80	<u>179</u>	48	<u>1014</u>
P18 85		51	<u>1060</u>	85	<u>182</u>	51	<u>1018</u>
P19 90		54	<u>1085</u>	90	<u>185</u>	54	<u>1037</u>
P20 95		57	<u>1100</u>	95		57	<u>1046</u>
100		60	<u>1116</u>	100		60	<u>1059</u>
		<u>62</u>	<u>1124</u>				

WESTERN TESTING CO., INC.

Pressure Data

Date: _____

Test Ticket No. 10165

Recorder No. _____ Capacity _____ Location _____ Ft.

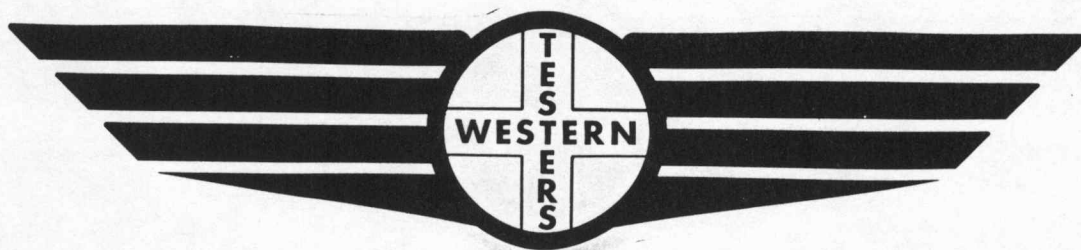
Clock No. _____ Elevation _____ Well Temperature _____ °F

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	1068
P 2 110		66		110		66	1078
P 3 115		69		115		69	1086
P 4 120		72		120		72	1099
P 5 125		75		125		75	1104
P 6 130		78		130		78	1111
P 7 135		81		135		81	1116
P 8 140		84		140		84	1122
P 9 145		87		145		87	1131
P10 150		90		150		90	1137
P11 155		93		155		93	1144
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	: 6-20-93	TICKET	: 20162
CUSTOMER	: PICKRELL DRILLING CO.INC.	LEASE	: MAPLE "K"
WELL	: #1	TEST: 5	GEOLOGIST: BILL KLEVER
ELEVATION	: 1503 G.L.	FORMATION	: MISSISSIPPI
SECTION	: 30	TOWNSHIP	: 29S
RANGE	: 6W	COUNTY: KINGMAN	STATE : KS
GAUGE SN#	: 13521	RANGE : 4375	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4159.00 ft	TO:	4179.00 ft	TVD:	4179.0 ft
DEPTH OF SELECTIVE ZONE:	TEST TYPE: GAS				
DEPTH OF RECORDERS:	4164.0 ft	4169.0 ft			
TEMPERATURE:	133.0				
DRILL COLLAR LENGTH:	246.0 ft	I.D.:	2.250 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	3892.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	21.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	20.0 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:	4154.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	4159.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	PICKRELL #3	VISCOSITY :	51.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	13.600 cc
WEIGHT :	9.000 ppg	SERIAL NUMBER:	
CHLORIDES :	9000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

BLOW OFF BOTTOM OF BUCKET. GAS TO SURFACE IN 45
ON INITIAL SHUT IN. SEE ATTACHED SHEET FOR GAS
MEASUREMENTS.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
240.0	40.0	0.0	20.0	40.0	H. OIL CUT GASSY MUD
60.0	3.0	0.0	92.0	5.0	SLI. OIL CUT MUDDY WTR.
120.0	0.0	0.0	100.0	0.0	SALT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 105000 PPM

RATE INFORMATION

OIL VOLUME:	1.1149 STB	
GAS VOLUME:	0.0000 SCF	
MUD VOLUME:	1.1208 STB	
WATER VOLUME:	1.4146 STB	
TOTAL FLUID :	3.6503 STB	
		TOTAL FLOW TIME: 120.0000 min.
		AVERAGE OIL RATE: 22.2329 STB/D
		AVERAGE WATER RATE: 21.5705 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2089.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	110.00	121.00
INITIAL SHUT-IN	60.00		1127.00
FINAL FLOW	90.00	143.00	188.00
FINAL SHUT-IN	90.00		1127.00

FINAL HYDROSTATIC PRESSURE: 2111.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2100.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	101.00	116.00
INITIAL SHUT-IN	63.00		1134.00
FINAL FLOW	90.00	145.00	185.00
FINAL SHUT-IN	93.00		1144.00

FINAL HYDROSTATIC PRESSURE: 2078.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 6-20-93	TICKET : 20162
CUSTOMER : PICKRELL DRILLING CO. INC.	LEASE : MAPLE "K"
WELL : #1	GEOLOGIST: BILL KLEVER
ELEVATION: 1503 G.L.	FORMATION: MISSISSIPPI
SECTION : 30	TOWNSHIP : 29S
RANGE : 6W	STATE : KS
GAUGE SN#: 13521	CLOCK : 12
COUNTY: KINGMAN	
RANGE : 4375	

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
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SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.250	7" OF WATER	4450 SCF/D
20 MIN.	MERLA	0.250	10" OF WATER	5320 SCF/D
30 MIN.	MERLA	0.250	12" OF WATER	5860 SCF/D
40 MIN.	MERLA	0.250	11" OF WATER	5600 SCF/D
50 MIN.	MERLA	0.250	10" OF WATER	5320 SCF/D
60 MIN.	MERLA	0.250	9" OF WATER	5050 SCF/D
70 MIN.	MERLA	0.250	9" OF WATER	5050 SCF/D
80 MIN.	MERLA	0.250	7" OF WATER	4450 SCF/D
90 MIN.	MERLA	0.250	7" OF WATER	4450 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 6-20-93	TICKET : 20162
CUSTOMER : PICKRELL DRILLING CO. INC.	LEASE : MAPLE "K"
WELL : #1	GEOLOGIST: BILL KLEVER
ELEVATION: 1503 G.L.	FORMATION: MISSISSIPPI
SECTION : 30	TOWNSHIP : 29S
RANGE : 6W	STATE : KS
GAUGE SN#: 13521	CLOCK : 12
COUNTY: KINGMAN	
RANGE : 4375	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	101.00	101.00
5.00	101.00	0.00
10.00	101.00	0.00
15.00	101.00	0.00
20.00	106.00	5.00
25.00	111.00	5.00
30.00	116.00	5.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	127.00	127.00	0.00
6.00	201.00	74.00	0.00
9.00	294.00	93.00	0.00
12.00	393.00	99.00	0.00
15.00	480.00	87.00	0.00
18.00	574.00	94.00	0.00
21.00	641.00	67.00	0.00
24.00	708.00	67.00	0.00
27.00	773.00	65.00	0.00
30.00	838.00	65.00	0.00
33.00	875.00	37.00	0.00
36.00	918.00	43.00	0.00
39.00	959.00	41.00	0.00
42.00	989.00	30.00	0.00
45.00	1017.00	28.00	0.00
48.00	1038.00	21.00	0.00
51.00	1060.00	22.00	0.00
54.00	1085.00	25.00	0.00
57.00	1100.00	15.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	1116.00	16.00	0.00
63.00	1134.00	18.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	145.00	145.00
5.00	145.00	0.00
10.00	145.00	0.00
15.00	145.00	0.00
20.00	147.00	2.00
25.00	150.00	3.00
30.00	156.00	6.00
35.00	162.00	6.00
40.00	165.00	3.00
45.00	167.00	2.00
50.00	168.00	1.00
55.00	169.00	1.00
60.00	170.00	1.00
65.00	172.00	2.00
70.00	174.00	2.00
75.00	176.00	2.00
80.00	179.00	3.00
85.00	182.00	3.00
90.00	185.00	3.00

FINAL SHUT IN

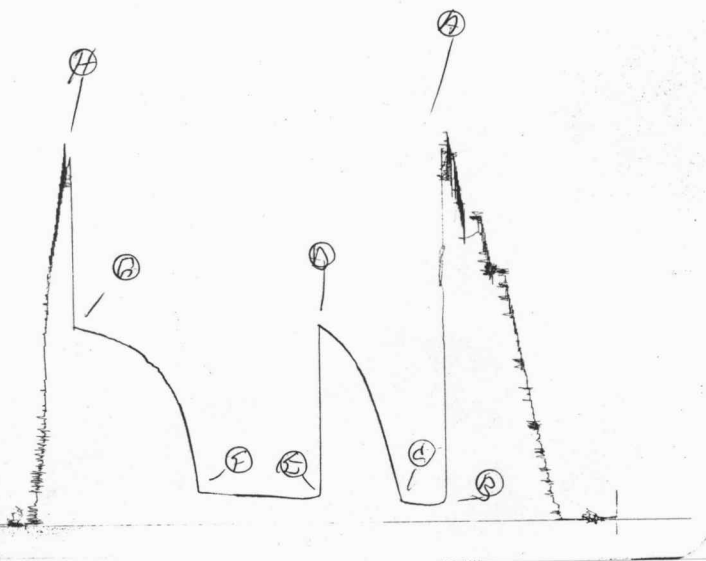
Time (min)	Pressure	Delta P	Horner T
3.00	345.00	345.00	0.00
6.00	491.00	146.00	0.00
9.00	581.00	90.00	0.00
12.00	649.00	68.00	0.00
15.00	697.00	48.00	0.00
18.00	749.00	52.00	0.00
21.00	785.00	36.00	0.00
24.00	823.00	38.00	0.00
27.00	861.00	38.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
30.00	894.00	33.00	0.00
33.00	911.00	17.00	0.00
36.00	933.00	22.00	0.00
39.00	957.00	24.00	0.00
42.00	980.00	23.00	0.00
45.00	999.00	19.00	0.00
48.00	1014.00	15.00	0.00
51.00	1028.00	14.00	0.00
54.00	1037.00	9.00	0.00
57.00	1046.00	9.00	0.00
60.00	1059.00	13.00	0.00
63.00	1068.00	9.00	0.00
66.00	1078.00	10.00	0.00
69.00	1086.00	8.00	0.00
72.00	1099.00	13.00	0.00
75.00	1104.00	5.00	0.00
78.00	1111.00	7.00	0.00
81.00	1116.00	5.00	0.00
84.00	1123.00	7.00	0.00
87.00	1131.00	8.00	0.00
90.00	1137.00	6.00	0.00
93.00	1144.00	7.00	0.00

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