



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 18922

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

WICHITA, KANSAS 67201

Elevation 2290 RL Formation Miss Eff. Pay Ft.

District PRATT Date 9-7-73 Customer Order No.

COMPANY NAME Pickrell Drilling Co Inc

ADDRESS 110 N. Market Suite 205 Wichita Kansas 67202

LEASE AND WELL NO. Einsel 1-I COUNTY Kiowa STATE Kansas Sec. 8 Twp 27s Rge. 20w

Mail Invoice To Same Co. Name Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 4808 ft. to 4858 ft. Total Depth 4858 ft.

Packer Depth 4803 ft. Size 6 5/8 in. Packer Depth 2 ft. Size 2 in.

Packer Depth 4808 ft. Size 6 5/8 in. Packer Depth 2 ft. Size 2 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4812 ft. Recorder Number 13265 Cap. 3975

Bottom Recorder Depth (Outside) 4815 ft. Recorder Number 13759 Cap. 3900

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Co Tools Drill Collar Length 281 I. D. 2 1/4 in.

Mud Type Gum Viscosity 55 Weight Pipe Length 4537 I. D. 3.8 in.

Weight 9.5 Water Loss 9.6 cc. Drill Pipe Length 20 (31+12) I. D. 3.8 in.

Chlorides 6,000 P.P.M. Test Tool Length 20 (31+12) Tool Size 5 5/8 in.

Jars: Make No Serial Number No Anchor Length 50 (31+19) ft. Size 4 1/2 + 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3 1/4 in. Bottom Choke Size in.

Main Hole Size 7 7/8 in. Tool Joint Size in.

Blow: Strong blow on initial flow - gas to surface 4 minutes
See flow chart

Recovered ft. of

Recovered 90 ft. of gas cut mud (slight show of oil) 10% gas - 90% mud

Recovered 120 ft. of gas cut mud 10% gas - 50% oil 80% mud

Recovered ft. of

Recovered 60 ft. of gas cut mud 20% gas 20% oil - 60% mud

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

Time On Location 7:00 A.M. Time Pick Up Tool 9:20 A.M. Time Off Location 7:00 A.M.

Time Set Packer(s) 11:05 A.M. Time Started Off Bottom 3:05 A.M. Maximum Temperature 122 of

Initial Hydrostatic Pressure (A) 2396 P.S.I.

Initial Flow Period Minutes 30 (B) 201 P.S.I. to (C) 151 P.S.I.

Initial Closed In Period Minutes 60 (D) 702 P.S.I.

Final Flow Period Minutes 60 (E) 171 P.S.I. to (F) 171 P.S.I.

Final Closed In Period Minutes 90 (G) 202 P.S.I.

Final Hydrostatic Pressure (H) 2347 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 Ted Britt 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	\$



GAS FLOW REPORT

No 5314

Date 9-7-93 Ticket 18922 Company Pickell Drilling Co
 Well Name and No. EINSEL Trust 1-I Dst No. 1 Interval Tested 4808-4858
 County Lincoln State Kansas Sec. 8 Twp. 27S Rg. 20W

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

04	-	1			GAS To Surface
10	6 PSI	1			353,000 CF/D
20	9 "	1			442,000
30	9 "	1			442,000

SECOND FLOW

10	9	1			442,000 CF/D
20	9	1			442,000
30	8	1			415,000
40	7	1			385,000
50	7	1			385,000
60	7	1			385,000

GAS BOTTLE

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

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

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

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 9-7-52

Test Ticket No. 18922

Recorder No. 132165

Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2420</u>	P.S.I.	Open Tool	M
B First Initial Flow Pressure	<u>249</u>	P.S.I.	First Flow Pressure	Mins. <u>10</u> Mins.
C First Final Flow Pressure	<u>168</u>	P.S.I.	Initial Closed-in Pressure	Mins. <u>60</u> Mins.
D Initial Closed-in Pressure	<u>206</u>	P.S.I.	Second Flow Pressure	Mins. <u>140</u> Mins.
E Second Initial Flow Pressure	<u>171</u>	P.S.I.	Final Closed-in Pressure	Mins. <u>90</u> Mins.
F Second Final Flow Pressure	<u>171</u>	P.S.I.		
G Final Closed-in Pressure	<u>200</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2379</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>249</u>	0	<u>168</u>	0	<u>171</u>	0	<u>171</u>
P 2 5	<u>249</u>	3	<u>542</u>	5		3	<u>559</u>
P 3 10	<u>245</u>	6	<u>614</u>	10		<u>594</u>	<u>201</u>
P 4 15	<u>195</u>	9	<u>641</u>	15		9	<u>624</u>
P 5 20	<u>185</u>	12	<u>665</u>	20		12	<u>643</u>
P 6 25	<u>176</u>	15	<u>673</u>	25		15	<u>657</u>
P 7 30	<u>168</u>	18	<u>681</u>	30		18	<u>665</u>
P 8 35		21	<u>684</u>	35		21	<u>667</u>
P 9 40		24	<u>687</u>	40		24	<u>672</u>
P10 45		27	<u>690</u>	45		27	<u>676</u>
P11 50		30	<u>692</u>	50		30	<u>681</u>
P12 55		33	<u>694</u>	55		33	<u>684</u>
P13 60		36	<u>696</u>	60	<u>171</u>	36	<u>686</u>
P14 65		39	<u>698</u>	65		39	<u>687</u>
P15 70		42	<u>700</u>	70		42	
P16 75		45	<u>701</u>	75		45	<u>687</u>
P17 80		48	<u>703</u>	80		48	<u>688</u>
P18 85		51	<u>703</u>	85		51	<u>688</u>
P19 90		54	<u>704</u>	90		54	<u>690</u>
P20 95		57	<u>705</u>	95		57	<u>691</u>
100		60	<u>706</u>	100		60	<u>692</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 18922

Recorder No. _____ Capacity _____ Location _____ Ft.

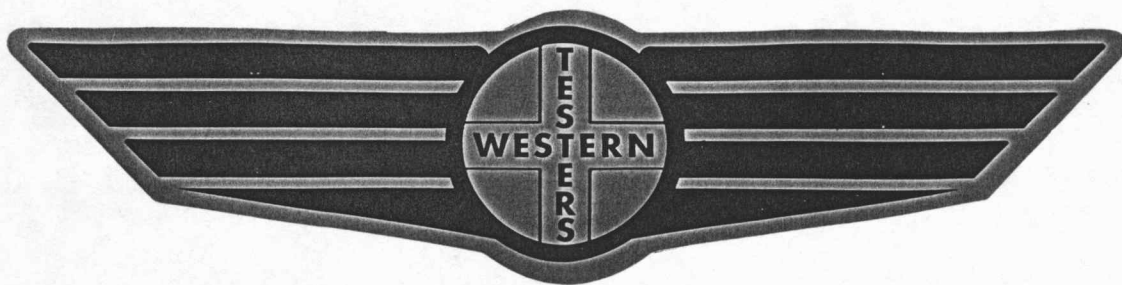
Clock No. _____ Elevation _____ Well Temperature _____ °F

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	69.2
P 2 110		66		110		66	69.4
P 3 115		69		115		69	69.5
P 4 120		72		120		72	69.6
P 5 125		75		125		75	69.8
P 6 130		78		130		78	69.8
P 7 135		81		135		81	69.9
P 8 140		84		140		84	70.0
P 9 145		87		145		87	70.0
P10 150		90		150		90	
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 - 80 - 688 - 7021

COMPANY PICKRELL DRILLING CO INC LEASE & WELL NO. #1-1 EINSEL TRUST SEC. 8 TWP. 27S RGE. 20W TEST NO. 1 DATE 9/7/93

DST REPORT

GENERAL INFORMATION

DATE	: 9/7/93	TICKET	: 18922
CUSTOMER	: PICKRELL DRILLING CO INC	LEASE	: EINSEL TRUST
WELL	: #1-I	TEST: 1	GEOLOGIST: KLAVER
ELEVATION	: 2290 GL	FORMATION	: MISSISSIPPI
SECTION	: 8	TOWNSHIP	: 27S
RANGE	: 20W	COUNTY: KIOWA	STATE : KS
GAUGE SN#	: 13265	RANGE : 3975	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4808.00 ft	TO:	4858.00 ft	TVD:	4858.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	4812.0 ft		4815.0 ft		
TEMPERATURE:	122.0				
DRILL COLLAR LENGTH:	251.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4537.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	50.0 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:	4803.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4808.0 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	VISCOSITY :	55.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.500 ppg	SERIAL NUMBER:	
CHLORIDES :	6000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW. GAS TO SURFACE
IN 4 MINUTES. SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	0.0	10.0	0.0	90.0	GAS CUT MUD
0.0	0.0	0.0	0.0	0.0	SLIGHT SHOW OF OIL
120.0	5.0	10.0	0.0	85.0	GAS & OIL CUT MUD
60.0	20.0	20.0	0.0	60.0	GAS & OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0885	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	1.0084	SCF	AVERAGE OIL RATE:	12.2740	STB/D
MUD VOLUME:	1.2327	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	1.3212	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2396.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	201.00	151.00
INITIAL SHUT-IN	60.00		702.00
FINAL FLOW	60.00	171.00	171.00
FINAL SHUT-IN	90.00		702.00

FINAL HYDROSTATIC PRESSURE: 2347.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2420.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	249.00	168.00
INITIAL SHUT-IN	60.00		706.00
FINAL FLOW	60.00	171.00	171.00
FINAL SHUT-IN	90.00		700.00

FINAL HYDROSTATIC PRESSURE: 2379.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 9/7/93	TICKET : 18922
CUSTOMER : PICKRELL DRILLING CO INC	LEASE : EINSEL TRUST
WELL : #1-I TEST: 1	GEOLOGIST: KLAVER
ELEVATION: 2290 GL	FORMATION: MISSISSIPPI
SECTION : 8	TOWNSHIP : 27S
RANGE : 20W COUNTY: KIOWA	STATE : KS
GAUGE SN#: 13265 RANGE : 3975	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.000	6 PSIG	353000 SCF/D
20 MIN	MERLA	1.000	9 PSIG	442000 SCF/D
30 MIN	MERLA	1.000	9 PSIG	442000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.000	9 PSIG	442000 SCF/D
20 MIN	MERLA	1.000	9 PSIG	442000 SCF/D
30 MIN	MERLA	1.000	8 PSIG	415000 SCF/D
40 MIN	MERLA	1.000	7 PSIG	385000 SCF/D
50 MIN	MERLA	1.000	7 PSIG	385000 SCF/D
60 MIN	MERLA	1.000	7 PSIG	385000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/7/93	TICKET : 18922
CUSTOMER : PICKRELL DRILLING CO INC	LEASE : EINSEL TRUST
WELL : #1-I TEST: 1	GEOLOGIST: KLAVER
ELEVATION: 2290 GL	FORMATION: MISSISSIPPI
SECTION : 8	TOWNSHIP : 27S
RANGE : 20W COUNTY: KIOWA	STATE : KS
GAUGE SN#: 13265 RANGE : 3975	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	249.00	249.00
5.00	249.00	0.00
10.00	213.00	-36.00
15.00	195.00	-18.00
20.00	185.00	-10.00
25.00	176.00	-9.00
30.00	168.00	-8.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	542.00	542.00	0.00
6.00	614.00	72.00	0.00
9.00	641.00	27.00	0.00
12.00	662.00	21.00	0.00
15.00	673.00	11.00	0.00
18.00	681.00	8.00	0.00
21.00	684.00	3.00	0.00
24.00	687.00	3.00	0.00
27.00	690.00	3.00	0.00
30.00	692.00	2.00	0.00
33.00	694.00	2.00	0.00
36.00	696.00	2.00	0.00
39.00	698.00	2.00	0.00
42.00	700.00	2.00	0.00
45.00	701.00	1.00	0.00
48.00	702.00	1.00	0.00
51.00	703.00	1.00	0.00
54.00	704.00	1.00	0.00
57.00	705.00	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	706.00	1.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	171.00	171.00
5.00	171.00	0.00
10.00	171.00	0.00
15.00	171.00	0.00
20.00	171.00	0.00
25.00	171.00	0.00
30.00	171.00	0.00
35.00	171.00	0.00
40.00	171.00	0.00
45.00	171.00	0.00
50.00	171.00	0.00
55.00	171.00	0.00
60.00	171.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	559.00	559.00	0.00
6.00	594.00	35.00	0.00
9.00	624.00	30.00	0.00
12.00	643.00	19.00	0.00
15.00	657.00	14.00	0.00
18.00	663.00	6.00	0.00
21.00	667.00	4.00	0.00
24.00	672.00	5.00	0.00
27.00	676.00	4.00	0.00
30.00	681.00	5.00	0.00
33.00	684.00	3.00	0.00
36.00	686.00	2.00	0.00
39.00	687.00	1.00	0.00
42.00	687.00	0.00	0.00
45.00	687.00	0.00	0.00
48.00	688.00	1.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

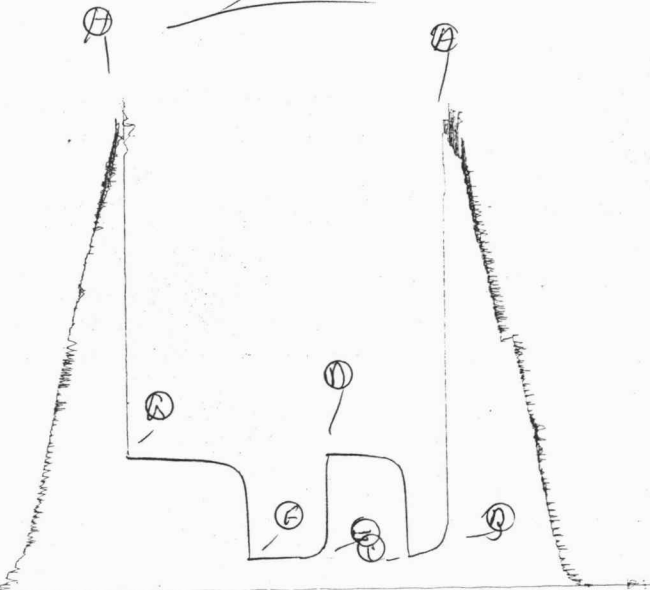
FINAL SHUT IN (CONTINUED)

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	689.00	1.00	0.00
54.00	690.00	1.00	0.00
57.00	691.00	1.00	0.00
60.00	692.00	1.00	0.00
63.00	693.00	1.00	0.00
66.00	694.00	1.00	0.00
69.00	695.00	1.00	0.00
72.00	696.00	1.00	0.00
75.00	697.00	1.00	0.00
78.00	698.00	1.00	0.00
81.00	699.00	1.00	0.00
84.00	700.00	1.00	0.00
87.00	700.00	0.00	0.00
90.00	700.00	0.00	0.00

13265 DST#1

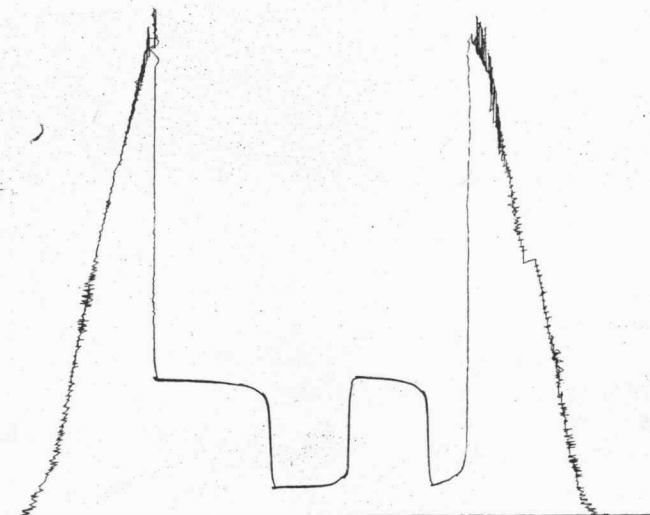


KT 18922



13759 DST#1

KT 18922





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

final
Nº 18923

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

WICHITA, KANSAS 67201

Elevation 2293 KB

Formation MISS

Eff. Pay _____ Ft.

District PRAIT

Date 9-7-8-93

Customer Order No. _____

COMPANY NAME Pickrel Drilling Co. Inc.

ADDRESS 110 North Mabel Suite 205 Wichita, Kansas 67202

LEASE AND WELL NO. Einsel 1-I COUNTY KLAWA STATE Kansas Sec 08 Twp 27 Rge 20

Mail Invoice To Same #1-1 Einsel Trust No. Copies Requested leg

Mail Charts To Same No. Copies Requested leg

Formation Test No. 2 Interval Tested From 4856 ft. to 4866 ft. Total Depth 4866 ft.

Packer Depth 4851 ft. Size 6 5/8 in. Packer Depth 2 ft. Size 2 in.

Packer Depth 4856 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 20 4458 ft. Recorder Number 13265 Cap. 3925

Bottom Recorder Depth (Outside) 21861 ft. Recorder Number 13759 Cap. 3900

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

Drilling Contractor Co Tools Drill Collar Length 243 I. D. 2 1/4 in.

Mud Type Chem Viscosity 56 Weight Pipe Length -0- I. D. _____ in.

Weight 7.1 Water Loss 9.6 cc. Drill Pipe Length 4593 I. D. 3.8 in.

Chlorides 6.000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make No Serial Number 7 Anchor Length 10 ft. Size 5 1/2 in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/2 in. Tool Joint Size 4 1/2 X 14 in.

Blow: Strong blow on initial flow - gas to surface 15 minutes
See flow chart

Recovered 90 ft. of fine oil (36 gravity corr.)

Recovered 240 ft. of Heavy oil & gas cut mud 20% gas 60% oil 20% mud

Recovered _____ ft. of _____

Recovered 60 ft. of Oil cut water 100% gas - 20% oil - 70% water 68,000 PPM

Recovered _____ ft. of _____

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

Time On Location 7:00 A.M. Time Pick Up Tool 12:45 A.M. Time Off Location _____ A.M.

Time Set Packer(s) 2:35 A.M. Time Started Off Bottom 7:05 A.M. Maximum Temperature 124 °F

Initial Hydrostatic Pressure _____ (A) 2446 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 80 P.S.I. to (C) 80 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 702 P.S.I.

Final Flow Period _____ Minutes 70 (E) 100 P.S.I. to (F) 100 P.S.I.

Final Closed In Period _____ Minutes 90 (G) 702 P.S.I.

Final Hydrostatic Pressure _____ (H) 2396 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 Kluen
Signature of Customer or his authorized representative

Western Representative Ed Britt 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 \$



No 5315

GAS FLOW REPORT

Date 9-8-93 Ticket 18923 Company Lockwood Drilling
 Well Name and No. 1 Emsel Truss "I" Dst No. 2 Interval Tested 4856-4866
 County Kiowa State Kansas Sec. 8 Twp. 27s Rg. 20w

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

15	—	1/2			gas to surface
20	27.5	1			47,700 C.F.P.D.
30	27.5	1			47,700

SECOND FLOW

10	6 psi	1/2			86,300 C.F.P.D.
20	3	1/2			59,200
30	3	1/2			59,200
40	3	1/2			59,200
50	3	1/2			59,200
60	3	1/2			59,200
70	3	1/2			59,200
80	3	1/2			59,200
90	3	1/2			59,200

GAS BOTTLE

Serial No. _____ Date Bottle Filled 16 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 9-2-92
Recorder No. 132125

Test Ticket No. 18922
Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2443</u> P.S.I.	_____ M	_____ M
B First Initial Flow Pressure	<u>94</u> P.S.I.	_____ Mins.	_____ Mins.
C First Final Flow Pressure	<u>74</u> P.S.I.	_____ Mins.	_____ Mins.
D Initial Closed-in Pressure	<u>710</u> P.S.I.	_____ Mins.	_____ Mins.
E Second Initial Flow Pressure	<u>92</u> P.S.I.	_____ Mins.	_____ Mins.
F Second Final Flow Pressure	<u>124</u> P.S.I.	_____ Mins.	_____ Mins.
G Final Closed-in Pressure	<u>715</u> P.S.I.	_____ Mins.	_____ Mins.
H Final Hydrostatic Mud	<u>2418</u> P.S.I.	_____ Mins.	_____ Mins.

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>94</u>	0	<u>74</u>	0	<u>92</u>	0	<u>124</u>
P 2 5	<u>94</u>	3	<u>1417</u>	5	<u>92</u>	3	<u>407</u>
P 3 10	<u>78</u>	6	<u>539</u>	10	<u>92</u>	6	<u>505</u>
P 4 15	<u>74</u>	9	<u>572</u>	15	<u>92</u>	9	<u>557</u>
P 5 20	<u>74</u>	12	<u>605</u>	20	<u>92</u>	12	<u>588</u>
P 6 25	<u>74</u>	15	<u>631</u>	25	<u>94</u>	15	<u>615</u>
P 7 30	<u>74</u>	18	<u>648</u>	30	<u>96</u>	18	<u>631</u>
P 8 35		21	<u>661</u>	35	<u>98</u>	21	<u>647</u>
P 9 40		24	<u>671</u>	40	<u>100</u>	24	<u>659</u>
P10 45		27	<u>679</u>	45	<u>102</u>	27	<u>665</u>
P11 50		30	<u>686</u>	50	<u>104</u>	30	<u>674</u>
P12 55		33	<u>691</u>	55	<u>106</u>	33	<u>680</u>
P13 60		36	<u>696</u>	60	<u>109</u>	36	<u>687</u>
P14 65		39	<u>699</u>	65	<u>112</u>	39	<u>692</u>
P15 70		42	<u>701</u>	70	<u>115</u>	42	<u>695</u>
P16 75		45	<u>703</u>	75	<u>118</u>	45	<u>699</u>
P17 80		48	<u>705</u>	80	<u>120</u>	48	<u>701</u>
P18 85		51	<u>707</u>	85	<u>122</u>	51	<u>703</u>
P19 90		54	<u>708</u>	90	<u>124</u>	54	<u>703</u>
P20 95		57	<u>709</u>	95		57	<u>704</u>
100		60	<u>710</u>	100		60	<u>705</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 18912

Recorder No. _____ Capacity _____ Location _____ Ft.

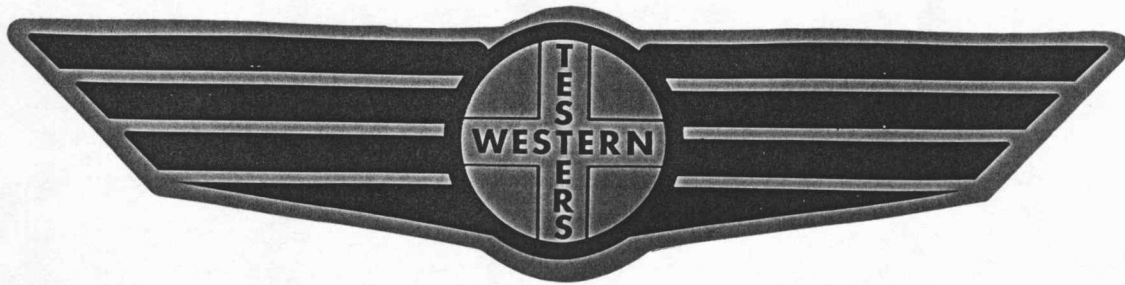
Clock No. _____ Elevation _____ Well Temperature _____ °F

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	206
P 2 110		66		110		66	207
P 3 115		69		115		69	208
P 4 120		72		120		72	208
P 5 125		75		125		75	209
P 6 130		78		130		78	209
P 7 135		81		135		81	210
P 8 140		84		140		84	210
P 9 145		87		145		87	211
P10 150		90		150		90	212
P11 155		93		155		93	5
P12 160		96		160		96	212
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 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE	: 9/7/93	TICKET	: 18923
CUSTOMER	: PICKRELL DRILLING CO INC	LEASE	: EINSEL TRUST
WELL	: #1-I	TEST: 2	GEOLOGIST: KLAVER
ELEVATION	: 2293 KB	FORMATION	: MISSISSIPPI
SECTION	: 8	TOWNSHIP	: 27S
RANGE	: 20W	STATE	: KS
GAUGE SN#	: 13265	CLOCK	: 12
	COUNTY: KIOWA		
	RANGE : 3975		

WELL INFORMATION

PERFORATION INTERVAL FROM:	4856.00 ft	TO:	4866.00 ft	TVD:	4866.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	4858.0 ft		4861.0 ft		
TEMPERATURE:	124.0				
DRILL COLLAR LENGTH:	243.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	4593.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	10.0 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:	4851.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4856.0 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	VISCOSITY :	56.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.100 ppg	SERIAL NUMBER:	
CHLORIDES :	6000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW. GAS TO SURFACE
IN 15 MINUTES. SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
90.0	100.0	10.0	0.0	0.0	FREE OIL
0.0	0.0	0.0	0.0	0.0	GRAVITY 36 CORRECTED
240.0	60.0	20.0	0.0	20.0	HVY OIL & GAS CUT MUD
60.0	20.0	10.0	70.0	0.0	OIL CUT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 68000 PPM

RATE INFORMATION

OIL VOLUME:	2.3410 STB	
GAS VOLUME:	2.7829 SCF	
MUD VOLUME:	0.3399 STB	
WATER VOLUME:	0.2065 STB	
TOTAL FLUID :	2.8874 STB	
		TOTAL FLOW TIME: 120.0000 min.
		AVERAGE OIL RATE: 32.1708 STB/D
		AVERAGE WATER RATE: 2.4784 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2446.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	80.00	80.00
INITIAL SHUT-IN	60.00		702.00
FINAL FLOW	90.00	100.00	100.00
FINAL SHUT-IN	90.00		702.00

FINAL HYDROSTATIC PRESSURE: 2396.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2443.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	94.00	74.00
INITIAL SHUT-IN	60.00		710.00
FINAL FLOW	90.00	92.00	124.00
FINAL SHUT-IN	96.00		712.00

FINAL HYDROSTATIC PRESSURE: 2418.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 9/7/93	TICKET : 18923
CUSTOMER : PICKRELL DRILLING CO INC	LEASE : EINSEL TRUST
WELL : #1-I TEST: 2	GEOLOGIST: KLAVER
ELEVATION: 2293 KB	FORMATION: MISSISSIPPI
SECTION : 8	TOWNSHIP : 27S
RANGE : 20W COUNTY: KIOWA	STATE : KS
GUAGE SN#: 13265 RANGE : 3975	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
20 MIN	MERLA	0.500	2 PSIG	47700 SCF/D
30 MIN	MERLA	0.500	2 PSIG	47700 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	0.500	6 PSIG	86300 SCF/D
20 MIN	MERLA	0.500	3 PSIG	59200 SCF/D
30 MIN	MERLA	0.500	3 PSIG	59200 SCF/D
40 MIN	MERLA	0.500	3 PSIG	59200 SCF/D
50 MIN	MERLA	0.500	3 PSIG	59200 SCF/D
60 MIN	MERLA	0.500	3 PSIG	59200 SCF/D
70 MIN	MERLA	0.500	3 PSIG	59200 SCF/D
80 MIN	MERLA	0.500	3 PSIG	59200 SCF/D
90 MIN	MERLA	0.500	3 PSIG	59200 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/7/93	TICKET : 18923
CUSTOMER : PICKRELL DRILLING CO INC	LEASE : EINSEL TRUST
WELL : #1-I TEST: 2	GEOLOGIST: KLAVER
ELEVATION: 2293 KB	FORMATION: MISSISSIPPI
SECTION : 8	TOWNSHIP : 27S
RANGE : 20W COUNTY: KIOWA	STATE : KS
GAUGE SN#: 13265 RANGE : 3975	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	94.00	94.00
5.00	94.00	0.00
10.00	78.00	-16.00
15.00	74.00	-4.00
20.00	74.00	0.00
25.00	74.00	0.00
30.00	74.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	447.00	447.00	0.00
6.00	539.00	92.00	0.00
9.00	577.00	38.00	0.00
12.00	605.00	28.00	0.00
15.00	631.00	26.00	0.00
18.00	648.00	17.00	0.00
21.00	661.00	13.00	0.00
24.00	671.00	10.00	0.00
27.00	679.00	8.00	0.00
30.00	686.00	7.00	0.00
33.00	691.00	5.00	0.00
36.00	696.00	5.00	0.00
39.00	699.00	3.00	0.00
42.00	701.00	2.00	0.00
45.00	703.00	2.00	0.00
48.00	705.00	2.00	0.00
51.00	707.00	2.00	0.00
54.00	708.00	1.00	0.00
57.00	709.00	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	710.00	1.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	92.00	92.00
5.00	92.00	0.00
10.00	92.00	0.00
15.00	92.00	0.00
20.00	92.00	0.00
25.00	94.00	2.00
30.00	96.00	2.00
35.00	98.00	2.00
40.00	100.00	2.00
45.00	102.00	2.00
50.00	104.00	2.00
55.00	106.00	2.00
60.00	109.00	3.00
65.00	112.00	3.00
70.00	115.00	3.00
75.00	118.00	3.00
80.00	120.00	2.00
85.00	122.00	2.00
90.00	124.00	2.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	407.00	407.00	0.00
6.00	505.00	98.00	0.00
9.00	557.00	52.00	0.00
12.00	588.00	31.00	0.00
15.00	615.00	27.00	0.00
18.00	631.00	16.00	0.00
21.00	647.00	16.00	0.00
24.00	659.00	12.00	0.00
27.00	665.00	6.00	0.00
30.00	674.00	9.00	0.00

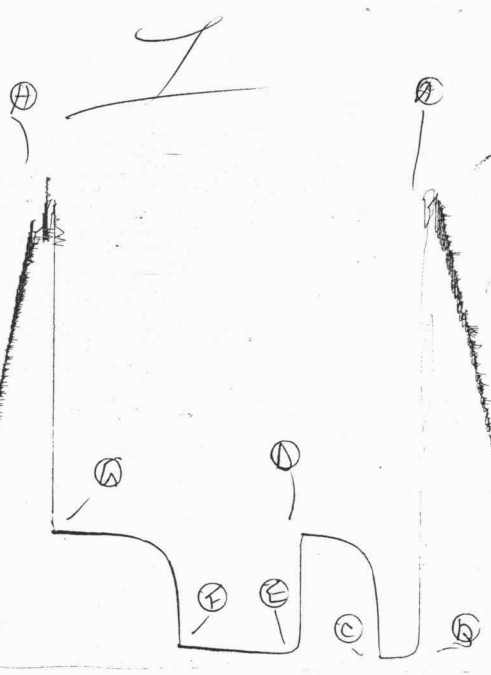
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
33.00	680.00	6.00	0.00
36.00	687.00	7.00	0.00
39.00	692.00	5.00	0.00
42.00	695.00	3.00	0.00
45.00	699.00	4.00	0.00
48.00	701.00	2.00	0.00
51.00	702.00	1.00	0.00
54.00	703.00	1.00	0.00
57.00	704.00	1.00	0.00
60.00	705.00	1.00	0.00
63.00	706.00	1.00	0.00
66.00	707.00	1.00	0.00
69.00	708.00	1.00	0.00
72.00	708.00	0.00	0.00
75.00	709.00	1.00	0.00
78.00	709.00	0.00	0.00
81.00	710.00	1.00	0.00
84.00	710.00	0.00	0.00
87.00	711.00	1.00	0.00
90.00	712.00	1.00	0.00
93.00	712.00	0.00	0.00
96.00	712.00	0.00	0.00

13265 DST#2

K+18922



13959 DST#2

K+18923

O

