

O. FIELD TESTERS, INC.

FORMATION TESTING

Box 696
Hays, Kansas

Box 451
Great Bend, Kansas

22-335-31W
C SENE

COMPANY Panhandle Development Company, Inc. DATE 8-18-61
 LEASE & WELL NO. McVay # 1 TYPE TEST Open Hole TEST NO. 1
 STATE Kansas COUNTY Seward TICKET NO. 867
 Representative James K. Carter Approved By Jack K. Wharton

Mud Weight 9.5 Viscosity 37 Water Loss 15
 Size Hole 7 7/8 Hole Condition Good
 Dual Packers Yes Jars Yes-nocharge Safety Joint Yes
 Bottom Hole Temperature _____ Date Recorder Calibrated 1-20-61

BLOW: Fair to weak for 5 minutes and died, ~~WVA~~ flush tool @ 20
& 40 minutes, weak surge after flushes.

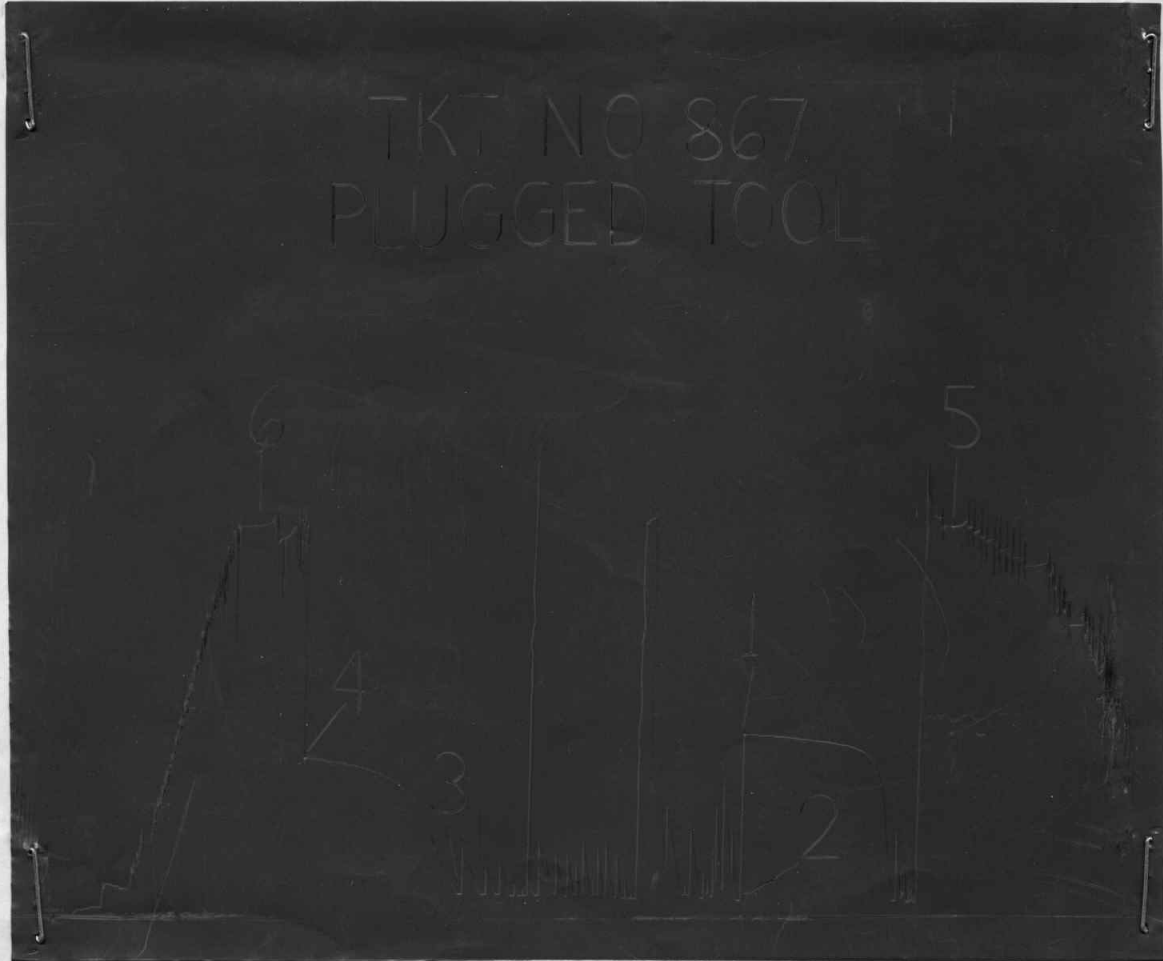
Did Well Flow No

Depth 3091 Tested From 3047 To 3091
 Tool Open 1 Hr. _____ Min. Chokes Top 3/4 Bottom 3/4
 Initial Shutin Pressure _____ Hr. 30 Min. Final Shutin Pressure _____ Hr. 30 Min.

RECOVERY: 95! Mud, tool plugging all through test.

Bottom Hole SIP — Initial	(1)	<u>690</u>	Final (4)	<u>550</u>
Flow Pressure — Initial	(2)	<u>45</u>	Final (3)	<u>85</u>
Hydrastatic Pressure — Initial	(5)	<u>1630</u>	Final (6)	<u>1630</u>

McVay #1



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COMPANY Panhandle Development Company, Inc. DATE 8-10-61
LEASE & WELL NO. McVay # 1 TYPE TEST Open Hole TEST NO. 2
STATE Kansas COUNTY Seward TICKET NO. 868
Representative James K. Carter Approved By Jack K. Wharton

Mud Weight 9.6 Viscosity 30 Water Loss 15
Size Hole 7 7/8 Hole Condition Good
Dual Packers Yes Jars Yes Safety Joint Yes
Bottom Hole Temperature _____ Date Recorder Calibrated 1-20-61

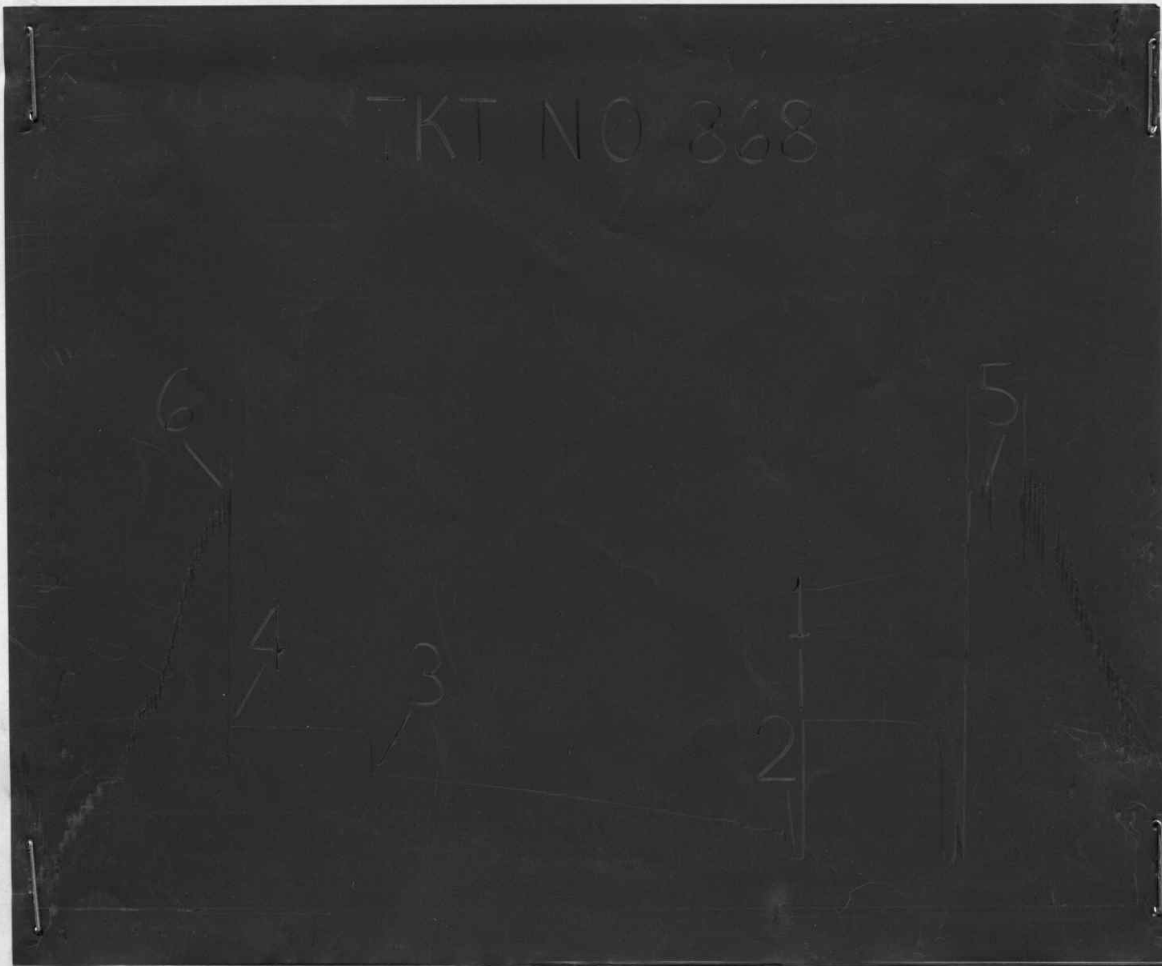
BLOW: Good throughout test.

Did Well Flow No

Depth 3210 Tested From 3156 To 3210
Tool Open 1 Hr. - Min. Chokes Top 3/4 Bottom 3/4
Initial Shutin Pressure - Hr. 30 Min. Final Shutin Pressure - Hr. 30 Min.

RECOVERY: 1000' Muddy saltwater.

Bottom Hole SIP — Initial	(1)	<u>710</u>	Final (4)	<u>710</u>
Flow Pressure — Initial	(2)	<u>185</u>	Final (3)	<u>515</u>
Hydrastatic Pressure — Initial	(5)	<u>1665</u>	Final (6)	<u>1665</u>





Home Office: Great Bend, Kansas

P. O. Box 793

Gladstone 3-7903

Company Panhandle Development Company Lease & Well No. McVey #1 Tkt. #1409

Date 8-22-61 Sec. 22 Twp. 33S Range 31W County Seward State Kansas

Test Approved by Jack K. Wharton Western Representative Norman Allen

Formation Test No. 3 O.K. Misrun Interval Tested From 4307' to 4330' Total Depth 4330'
Size Main Hole 7 7/8" Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Packer Depth 4301 Ft. Size 6 3/4 Packer Depth 4307 Ft. Size 6 3/4
Straddle Yes No Conv. B.T. Damaged Yes No
Packer Depth Ft. Size
Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 23 Ft. Size 5 1/2" O.D.

RECORDERS Depth 4325 Ft. Clock No. Depth 4328 Ft. Clock No.
Top Make Western Cap. 6000# No. 44 Inside Outside Bottom Make Western Cap. 6000# No. 43 Inside Outside
Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Outside Inside
Top Make Cap. No. Outside Bottom Make Cap. No. Outside

Time Set Packer 11:08 A. M
Tool Open I.F.P. From 11:11A M. to 11:15A M. - Hr. 4 Min. From (B) 0 P.S.I. To (C) 0 P.S.I.
Tool Closed I.C.I.P. From 11:15A M. to 11:45A M. - Hr. 30 Min. (D) 235 P.S.I.
Tool Open F.F.P. From 11:45 A M. to 12:45P M. 1 Hr. - Min From (E) 0 P.S.I. To (F) 0 P.S.I.
Tool Closed F.C.I.P. From 12:45P M. to 1:15 P M. - Hr. 30 Min. (G) 90 P.S.I.
Initial Hydrostatic Pressure (A) 2340 P.S.I. Final Hydrostatic Pressure (H) 2340 P.S.I.

SURFACE Size Choke 1 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Weak blow 5 Mins. Bottom Choke Size 3/4 in.
Did Well Flow Yes No. Recovery Total Ft. 25 Oil Gas Water Mud 25'

Reversed Out Yes No Mud Type Starch Viscosity 63 Weight 10.1 Maximum Temp. 100 °F
EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Jars: Size 3 1/2" F.H. Make Bowen Ser. No. 710
Type Circ. Sub. Plug Did Tool Plug? No Where? - Did Packer Hold? Yes

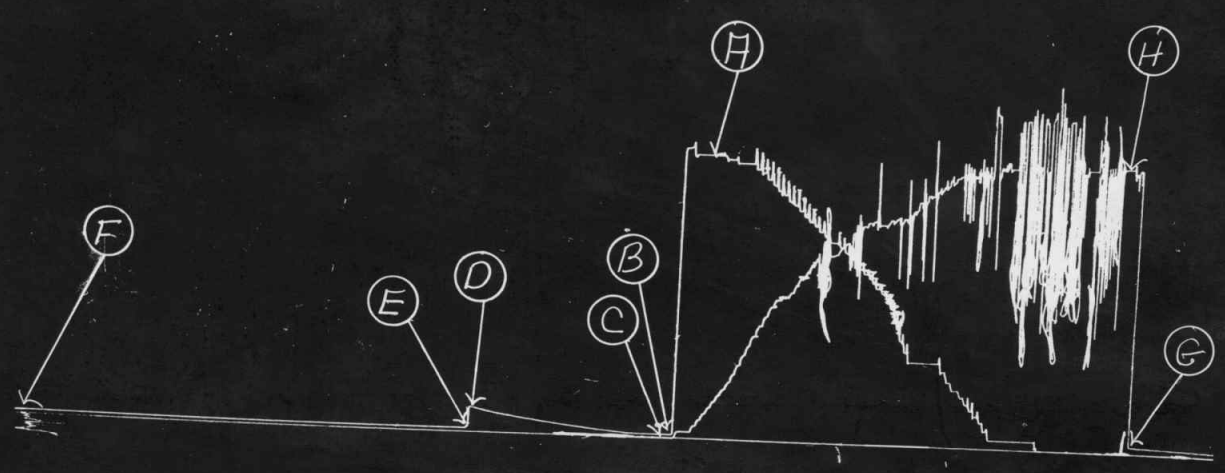
Remarks

Panhandle Devel. Co.

Test # 3

McVey #1

T.K.T. # 1409



This is an actual photograph of recorder chart.

Point	Pressure	
(A) Initial Hydrostatic Mud	2340	PSI
(B) First Initial Flow Pressure	0	PSI
(C) First Final Flow Pressure	0	PSI
(D) Initial Closed-in Pressure	235	PSI
(E) Second Initial Flow Pressure	0	PSI
(F) Second Final Flow Pressure	0	PSI
(G) Final Closed-in Pressure	90	PSI
(H) Final Hydrostatic Mud	2340	PSI

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COMPANY Panhandle Development Company, Inc. DATE 8-26-61
LEASE & WELL NO. McVay # 1 TYPE TEST Open Hole TEST NO. 4
STATE Kansas COUNTY Seward TICKET NO. 872
Representative James K. Carter Approved By Jack K. Wharton

Mud Weight 10 Viscosity 43 Water Loss 8
Size Hole 7 7/8 Hole Condition Tight 4300-4400
Dual Packers Yes Jars Yes Safety Joint Yes
Bottom Hole Temperature _____ Date Recorder Calibrated 8-17-61

BLOW: Weak to fair throughout test.

Did Well Flow No

Depth 5095 Tested From 5044 To 5095
Tool Open 1 Hr. 30 Min. Chokes Top 3/4 Bottom 3/4
Initial Shutin Pressure - Hr. 30 Min. Final Shutin Pressure - Hr. 30 Min.

RECOVERY: 250' Heavy gas cut and slightly oil cut mud.

Bottom Hole SIP — Initial	(1)	<u>1085</u>	Final (4)	<u>160</u>
Flow Pressure — Initial	(2)	<u>100</u>	Final (3)	<u>85</u>
Hydrastatic Pressure — Initial	(5)	<u>2710</u>	Final (6)	<u>2710</u>



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Box 451
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COMPANY Panhandle Development Company, Inc. DATE 8-31-61
LEASE & WELL NO. McVay # 1 TYPE TEST Open Hole TEST NO. 5
STATE Kansas COUNTY Seward TICKET NO. 897
Representative James K. Carter Approved By Jack K. Wharton

Mud Weight 9.5 Viscosity 44 Water Loss 9.6
Size Hole 7 7/8 Hole Condition Good
Dual Packers Yes Jars Yes Safety Joint Yes
Bottom Hole Temperature _____ Date Recorder Calibrated 8-17-61

BLOW: Strong; gas to surface in 5 minutes; too weak to measure
1 hr, 15 minutes.

Did Well Flow No

Depth 5900 Tested From 5815 To 5900
Tool Open 2 Hr. - Min. Chokes Top 3/4 Bottom 3/4
Initial Shutin Pressure - Hr. 30 Min. Final Shutin Pressure - Hr. 30 Min.

RECOVERY: 180' Free Gassy oil, 420' Very heavy oil and gas cut mud,
180' very heavy gas and oil cut mud.

Bottom Hole SIP — Initial	(1)	<u>1655</u>	Final (4)	<u>1230</u>
Flow Pressure — Initial	(2)	<u>205</u>	Final (3)	<u>255</u>
Hydrastatic Pressure — Initial	(5)	<u>3260</u>	Final (6)	<u>3260</u>

537,000 MCF--5 minutes
310,000 MCF--15 minutes
260,000 MCF--30 minutes
196,000 MCF--45 minutes
132,000 MCF--1 hour.

TKT NO 897

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3

4

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Box 451
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COMPANY Panhandle Development Company, Inc. DATE 9-1-61
LEASE & WELL NO. McVay # 1 TYPE TEST Open Hole TEST NO. 6 898
STATE Kansas COUNTY Seward TICKET NO. 898
Representative Earl Baker, Jr. Approved By Jack Wharton

Mud Weight 9.5 Viscosity 45 Water Loss 9.6
Size Hole 7 7/8 Hole Condition Good
Dual Packers Yes Jars Yes Safety Joint Yes
Bottom Hole Temperature _____ Date Recorder Calibrated 1-5-61

BLOW: Very weak throughout test.

Did Well Flow No

Depth 5980 Tested From 5902 To 5980
Tool Open 1 Hr. 30 Min. Chokes Top 3/4 Bottom 3/4
Initial Shutin Pressure - Hr. 30 Min. Final Shutin Pressure - Hr. 30 Min.

RECOVERY: 60' Slightly watery mud, 180' muddy water & 183' water.

Bottom Hole SIP — Initial	(1)	<u>1880</u>	Final (4)	<u>1620</u>
Flow Pressure — Initial	(2)	<u>135</u>	Final (3)	<u>190</u>
Hydrastatic Pressure — Initial	(5)	<u>3265</u>	Final (6)	<u>3265</u>

