WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Arrowhead Petro of Kansas, Inc. Lease & Well No. S.W.C. #1

Elevation 1293 Kelly Bush. Formation White Cloud Effective Pay - Ft. Ticket No. 21206

Date 4-17-75 Sec. 4 Twp. 32S Range 2W County Sumner State Kansas

Test Approved by Lee Poulsen Western Representative Forrest Purnell

Formation Test No. 1 O.K. X Misrun - Interval Tested From 1934' to 1950' Total Depth 1950'

Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. - Damaged - Yes - No Conv. - B.T. X Damaged - Yes X No

Top Packer Depth - Ft. Size - Bottom Packer Depth 1934 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 16 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 1942 Ft. Clock No. 6800 Depth 1945 Ft. Clock No. 6859

Top Make Kuster Cap. 4200 No. 1559 Inside Outside Bottom Make Kuster Cap. 3150 No. 1565 Inside Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 4:25 P M

Tool Open I.F.P. From 4:30P M. to 5:00P M. - Hr. 30 Min. From (B) 23 P.S.I. To (C) 23 P.S.I.

Tool Closed I.C.I.P. From 5:00P M. to 5:30P M. - Hr. 30 Min (D) 858 P.S.I.

Tool Open F.F.P. From 5:30P M. to 6:15P M. - Hr. 45 Min. From (E) 38 P.S.I. To (F) 33 P.S.I.

Tool Closed F.C.I.P. From 6:15P M. to 7:00P M. - Hr. 45 Min. (G) 931 P.S.I.

Initial Hydrostatic Pressure (A) 1063 P.S.I. Final Hydrostatic Pressure (H) 1061 P.S.I. Maximum Temp. 100

INFORMATION

BLOW Strong 15" blow throughout test. Gas to surface in 35 minutes.

Did Well Flow Gas Yes - No Recovery Total Ft. 60' gassy thin drilling mud.

Reversed Out - Yes X No Mud Type Starch Viscosity 41 Weight 10.0 Water Loss - cc. Chlorides 96,000 PPM

EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer No Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Sweetman Drilling Inc. Length Drill Pipe? 1546 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 273 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4"H-90 In. Length D.S.T. Tool 31 Ft.

Remarks: See sheet attached for gas measurements.

WESTERN TESTING CO., INC.
Pressure Data

Date 4-17-75 Test Ticket No. 21206

Recorder No. 1559 Capacity 4200 Location 1942 Ft.

Clock No. 6800 Elevation 1293 Kelly Bushing Well Temperature 100 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1063 P.S.I.		Open Tool	4:25 P M	
B	First Initial Flow Pressure	23 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	23 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	858 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	38 P.S.I.		Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	33 P.S.I.				
G	Final Closed-in Pressure	931 P.S.I.				
H	Final Hydrostatic Mud	1061 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	33
P 2	5	23
P 3	10	23
P 4	15	23
P 5	20	23
P 6	25	23
P 7	30	23
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	23
3	161
6	311
9	429
12	540
15	633
18	702
21	758
24	802
27	840
30	858

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	38
5	29
10	29
15	29
20	29
25	29
30	30
35	31
40	32
45	33

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	33
3	307
6	542
9	698
12	793
15	845
18	881
21	896
24	912
27	918
30	923
33	926
36	928
39	929
42	930
45	931

Phone 316 262-5861
316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 4-17-75 Ticket 21206 Company Arrowhead Petro of Kansas, Inc.

Well Name and No. S.W.C. #1 Dst No. 1 Interval Tested 1934' - 1950'

County Sumner State Kansas Sec. 4 Twp. 32S Rg. 2W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
SECOND FLOW						
4:35 PM	5 min.	4" of water	¼" choke			3,370 C.F.P.D.
4:45PM	10 min.	8" of water	¼" choke			4,760 C.F.P.D.
4:55 PM	10 min.	11" of water	¼" choke			5,600 C.F.P.D.
5:05 PM	10 min.	15" of water	¼" choke			6,550 C.F.P.D.
5:15 PM	10 min.	19" of water	¼" choke			7,320 C.F.P.D.

Gas to surface in thirty-five minutes, 5 minutes on final flow period. All measurements are taken through a 2" orifice well tester through a ¼" choke.

GAS BOTTLE

Serial No. Date Bottle Filled 4-17-75 Date to be Invoiced 4-17-75

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% per month, equal to 12% 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 Arrowhead Petro Of Kansas, Inc.

Authorized by Lee Poulsen

FORM WTC 6


tkt# 21206
I
H
G
D
A
F
E
C
B