



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 5900

OK

P. O. BOX 1599 PHONE (316) 838-0601 WICHITA, KANSAS 67201

Elevation 1404 Kelly Bushing Formation Burgess Sand Eff. Pay Ft.

District Aug. Date 9-13-80 Customer Order No.

COMPANY NAME Palomino Petroleum

ADDRESS 500 Insurance Bldg. Wichita 67202

LEASE AND WELL NO. Arlo Voth #1 COUNTY Harvey STATE KS Sec. 24 Twp. 23 Rge. 25

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

Mail Charts To Same Address No. Copies Requested

Formation Test No. 1 Interval Tested from 2702 ft. to 2751 ft. Total Depth 2751 ft. Packer Depth 2702 ft. Size 6 3/4 in. Packer Depth 2697 ft. Size 6 3/4 in. Depth of Selective Zone Set.

Top Recorder Depth (Inside) 2704 ft. Recorder Number 1559 Cap. 4200 Bottom Recorder Depth (Outside) 2707 ft. Recorder Number 5666 Cap. 3950 Below Straddle Recorder Depth DN+B ft. Recorder Number Cap.

Drilling Contractor DB+N Rig #3 Drill Collar Length 308 I. D. 2.25 in. Mud Type Chemical Viscosity 40 Weight Pipe Length 599 I. D. 2.70 in. Weight 9.4 Water Loss 110.0 cc. Drill Pipe Length 1733 I. D. 3.25 in. Chlorides 1000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in. Jars: Make NO Serial Number Anchor Length 49 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak died 10 min. Flushed Tool no help

Recovered 10 ft. of Mud Recovered ft. of Remarks:

Time Set Packer(s) 1:50 P.M. Time Started Off Bottom 2:40 P.M. Maximum Temperature 97 Initial Hydrostatic Pressure (A) 1326 P.S.I. Initial Flow Period (B) 30 Minutes (C) 31 P.S.I. Initial Closed In Period (D) 20 Minutes (E) 31 P.S.I. Final Flow Period (F) P.S.I. Final Closed In Period (G) P.S.I. Final Hydrostatic Pressure (H) 1305 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 Bob Watchous Signature of Customer or his authorized representative Western Representative James Reddett Wynm Wren Thank You

FIELD INVOICE Open Hole Test \$ 550.00 Misrun \$ Straddle Test \$ Jars \$ Selective Zone \$ Safety Joint \$ Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub. \$ 30.00 Mileage 40 \$ Fluid Sampler \$ Extra Charts \$ TOTAL \$ 580.00

WESTERN TESTING CO., INC.

Pressure Data

Date 9-13-80

Test Ticket No. 5900

Recorder No. 1559

Capacity 4200

Location 2704 Ft.

Clock No.

Elevation 1404 KB

Well Temperature 97 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>1311</u>	P.S.I.
B First Initial Flow Pressure	<u>33</u>	P.S.I.
C First Final Flow Pressure	<u>29</u>	P.S.I.
D Initial Closed-in Pressure	<u>29</u>	P.S.I.
E Second Initial Flow Pressure	<u> </u>	P.S.I.
F Second Final Flow Pressure	<u> </u>	P.S.I.
G Final Closed-in Pressure	<u> </u>	P.S.I.
H Final Hydrostatic Mud	<u>1297</u>	P.S.I.

	Time Given	Time Computed
Open Tool	<u>1:50 AM</u>	<u> </u>
First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Initial Closed-in Pressure	<u>20</u> Mins.	<u>18</u> Mins.
Second Flow Pressure	<u> </u> Mins.	<u> </u> Mins.
Final Closed-in Pressure	<u> </u> Mins.	<u> </u> Mins.

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 6 Inc.
of 3 mins. and a
final inc. of 0 Min.

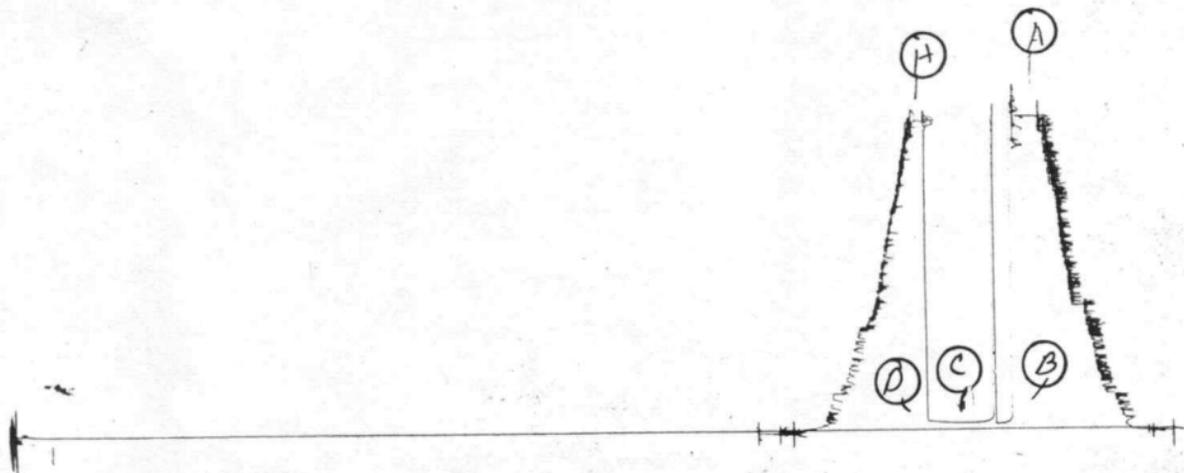
Second Flow Pressure
Breakdown: Inc.
of 5 mins. and a
final inc. of 0 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>33</u>	0	<u>29</u>	0		0	
P 2 5	<u>25</u>	3		5		3	
P 3 10	<u>FLUSHED TOOL</u>	6		10		6	
P 4 15	<u>31</u>	9		15		9	
P 5 20	<u>29</u>	12		20		12	
P 6 25	<u>1</u>	15		25		15	
P 7 30	<u>29</u>	18	<u>29</u>	30		18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P 10 45		27		45		27	
P 11 50		30		50		30	
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

TRK # 5900
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1599



Company Palomino Petroleum Lease & Well No. Arlo Voth #1
 Elevation 1404 Kelly Bushing Formation Burgess Sand Effective Pay - Ft. Ticket No. 5900
 Date 9-13-80 Sec. 24 Twp. 23S Range 2E County Harvey State Kansas
 Test Approved by Bob Watchous Western Representative James Ricketts

Formation Test No. 1 Interval Tested from 2702 ft. to 2751 ft. Total Depth 2751 ft.
 Packer Depth 2702 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2697 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 2704 ft. Recorder Number 1559 Cap. 4200
 Bottom Recorder Depth (Outside) 2707 ft. Recorder Number 5666 Cap. 3950
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor D N & B Rig #3 Drill Collar Length 308 I. D. 2.25 in.
 Mud Type Chemical Viscosity 40 Weight Pipe Length 599 I. D. 2.70 in.
 Weight 9.4 Water Loss 16.0 cc. Drill Pipe Length 1733 I. D. 3.25 in.
 Chlorides 1600 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make No Serial Number - Anchor Length 49 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak died in 10 minutes. Flushed tool no help.

Recovered 10 ft. of mud
 Recovered ft. of ft.
 Recovered ft. of ft.
 Recovered ft. of ft.
 Recovered ft. of ft.

Remarks:

Time Set Packer(s) 1:50 A.M. Time Started Off Bottom 2:40 P.M. Maximum Temperature 97
 Initial Hydrostatic Pressure (A) 1311 P.S.I.
 Initial Flow Period Minutes 30 (B) 33 P.S.I. to (C) 29 P.S.I.
 Initial Closed In Period Minutes 18 (D) 29 P.S.I.
 Final Flow Period Minutes -- (E) - P.S.I. to (F) - P.S.I.
 Final Closed In Period Minutes -- (G) - P.S.I.
 Final Hydrostatic Pressure (H) 1297 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 9-13-80 Recorder No. 1559 Capacity 4200 Test Ticket No. 5900
 Clock No. ----- Elevation 1404 Kelly Bushing Location 2704 Ft. Well Temperature 97 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1311 P.S.I.	Open Tool	1:50 A M	
B First Initial Flow Pressure	33 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	29 P.S.I.	Initial Closed-in Pressure	20 Mins.	18 Mins.
D Initial Closed-in Pressure	29 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	1297 P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 6 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	33	0	29				
P 2 5	25	3	29				
P 3 10	Flushed Tool	6	29				
P 4 15	31	9	29				
P 5 20	29	12	29				
P 6 25	29	15	29				
P 7 30	29	18	29				
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							