

Company Associated Petroleum Consultants, Inc. Lease & Well No. Hamilton #1

Elevation --- Formation Indian Cave Effective Pay - Ft. Ticket No. 14247

Date 12/11/81 Sec. 3 Twp. 29S Range 11W County Pratt State Kansas

Test Approved by Barry K. McLean Western Representative Jeff Piotrowski

Formation Test No. 1 Interval Tested from 2633 ft. to 2679 ft. Total Depth 2679 ft.

Packer Depth 2628 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2633 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2636 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 2639 ft. Recorder Number 1565 Cap. 4900

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

Drilling Contractor Heartland Drlg. Rig #1 Drill Collar Length 450 I. D. 2.2 in.

Mud Type starch Viscosity 37 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 19.8 cc. Drill Pipe Length 2161 I. D. 3.8 in.

Chlorides 39,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 46 ft. Size 5 1/2 OD 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 XH in.

Blow: Strong. Gas to surface in one and one half minutes. See attached sheet for gas measurements.

Recovered 1 ft. of mud

Recovered     ft. of    

Recovered     ft. of    

Recovered     ft. of    

Recovered     ft. of    

Remarks:    

Time Set Packer(s) 11:00 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 2:00 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature 102°

Initial Hydrostatic Pressure (A) 1290 P.S.I.

Initial Flow Period (B) 30 Minutes (C) 350 P.S.I. to (D) 516 P.S.I.

Initial Closed In Period (E) 63 Minutes (F) 933 P.S.I.

Final Flow Period (G) 30 Minutes (H) 573 P.S.I. to (I) 527 P.S.I.

Final Closed In Period (J) 63 Minutes (K) 932 P.S.I.

Final Hydrostatic Pressure (L) 1290 P.S.I.

## GAS FLOW REPORT

Date 12/11/81 Ticket 14247 Company Associated Petroleum Consultants, Inc.  
 Well Name and No. Hamilton #1 Dst No. 1 Interval Tested 2633'-2679'  
 County Pratt State Kansas Sec. 3 Twp. 29S Rg. 11W

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
<b>PRE FLOW</b>						
	10 min.	62.0 PSIG		1 1/4" orifice		2,774,000 CFPD
	20 min.	88.0 PSIG		1 1/4" orifice		6,021,000 CFPD
	30 min.	84.0 PSIG		1 1/4" orifice		5,782,000 CFPD
						Started blowing mud 15 minutes into initial flow.

<b>SECOND FLOW</b>						
	10 min.	94.0 PSIG		1 1/2" orifice		6,379,000 CFPD
	20 min.	90.0 PSIG		1 1/2" orifice		6,140,000 CFPD
	30 min.	90.0 PSIG		1 1/2" orifice		6,140,000 CFPD
						Blew mud through final flow.

### GAS BOTTLE

Serial No. ---- Date Bottle Filled --- Date to be Invoiced 12/11/81

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 Associated Petroleum Consultants, Inc.  
 Authorized by Barry K. McLean

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 12/11/81 Test Ticket No. 14247  
 Recorder No. 5673 Capacity 5400 Location 2636 Ft.  
 Clock No. — Elevation -- Well Temperature 102 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1290 P.S.I.	Open Tool	11:00A	M
B First Initial Flow Pressure	350 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	516 P.S.I.	Initial Closed-in Pressure	60 Mins.	63 Mins.
D Initial Closed-in Pressure	933 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	573 P.S.I.	Final Closed-in Pressure	60 Mins.	63 Mins.
F Second Final Flow Pressure	527 P.S.I.			
G Final Closed-in Pressure	932 P.S.I.			
H Final Hydrostatic Mud	1290 P.S.I.			

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>21</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	350	0	516	0	573	0	527
P 2	418	3	847	5	566	3	839
P 3	481	6	880	10	552	6	869
P 4	491	9	896	15	543	9	888
P 5	508	12	906	20	536	12	898
P 6	516	15	910	25	530	15	906
P 7	516	18	914	30	527	18	912
P 8		21	918			21	915
P 9		24	921			24	918
P10		27	923			27	920
P11		30	925			30	922
P12		33	926			33	924
P13		36	927			36	925
P14		39	928			39	926
P15		42	929			42	927
P16		45	930			45	928
P17		48	931			48	929
P18		51	932			51	930
P19		54	933			54	931
P20		57	933			57	932
		60	933			60	932
		63	933			63	932

5673

DST 61

TRT # 14247

I

H

A

G

D

F

E

C

B