

Company Associated Petroleum Consultants, Inc. Lease & Well No. Packard #1
 Elevation --- Formation Mississippi Effective Pay - Ft. Ticker No. 14286
 Date 11/30/81 Sec. 24 Twp. 31S Range 13W County Barber State Kansas
 Test Approved by Doug. McGinness Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4202 ft. to 4227 ft. Total Depth 4227 ft.
 Packer Depth 4197 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4202 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4206 ft. Recorder Number 2606 Cap 4150
 Bottom Recorder Depth (Outside) 4209 ft. Recorder Number 4332 Cap 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Heartland Drilling Drill Collar Length 463 I. D. 2 1/2 in.
 Mud Type premix-clay Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 16.2 cc. Drill Pipe Length 3719 I. D. 3.8 in.
 Chlorides 10,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make No Serial Number - Anchor Length 25 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 FH in.

Blow: Strong blow throughout test. Gas to surface in ten minutes. See attached sheet for gas measurements.

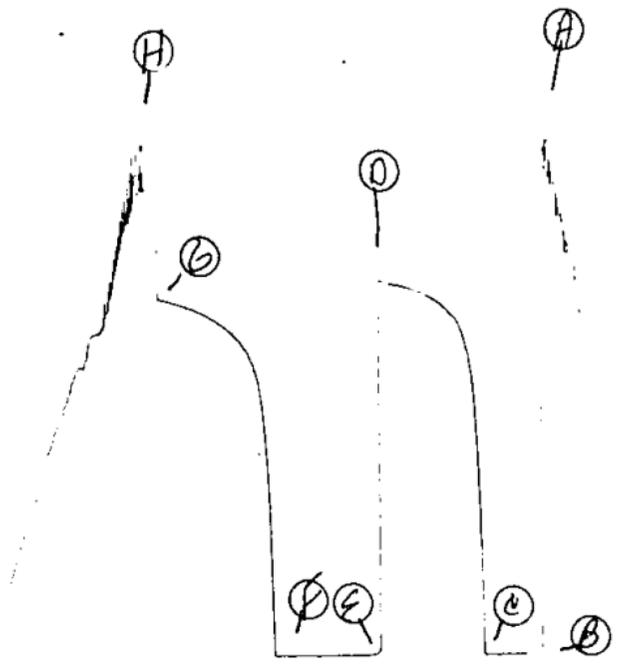
Recovered 45 ft. of gas cut mud
 Recovered 30 ft. of oil cut gassy mud 10% oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s)	<u>3:05</u>	A.M. P.M.	Time Started Off Bottom	<u>5:35</u>	A.M. P.M.	Maximum Temperature	<u>123°</u>
Initial Hydrostatic Pressure	(A)	<u>2127</u>	P.S.I.				
Initial Flow Period	Minutes	<u>30</u>	(B)	<u>71</u>	P.S.I. to (C)	<u>71</u>	P.S.I.
Initial Closed In Period	Minutes	<u>60</u>	(D)	<u>1596</u>	P.S.I.		
Final Flow Period	Minutes	<u>60</u>	(E)	<u>70</u>	P.S.I. to (F)	<u>70</u>	P.S.I.
Final Closed In Period	Minutes	<u>63</u>	(G)	<u>1523</u>	P.S.I.		
Final Hydrostatic Pressure	(H)	<u>2031</u>	P.S.I.				

PK# 14286

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GAS FLOW REPORT

Date 11/30/81 Ticket 14286 Company Associated Petroleum Consultants, Inc.
 Well Name and No. Packard #1 Dst No. 1 Interval Tested 4202-4227'
 County Barber State Kansas Sec. 24 Twp. 31S Rg. 14W

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						
	10 min.	3.0 PSIG	1/2" orifice			59,200 CFPD
	20 min.	3.0 PSIG	1/2" orifice			59,200 CFPD
	30 min.	3.0 PSIG	1/2" orifice			59,200 CFPD

SECOND FLOW First open 101,000 CFPD						
	10 min.	2.0 PSIG	1/2" orifice			59,200 CFPD
	20 min.	3.0 PSIG	1/2" orifice			59,200 CFPD
	30 min.	3.0 PSIG	1/2" orifice			59,200 CFPD
	40 min.	3.0 PSIG	1/2" orifice			59,200 CFPD
	50 min.	3.0 PSIG	1/2" orifice			59,200 CFPD
	60 min.	3.0 PSIG	1/2" orifice			59,200 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled --- Date to be Invoiced 11/30/81

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 Doug McGinness

WESTERN TESTING CO., INC.

Pressure Data

Date 11/30/81 Test Ticket No. 14286
 Recorder No. 2606 Capacity 4150 Location 4206 Ft.
 Clock No. - Elevation - Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2127	P.S.I.	3:05P	M
B First Initial Flow Pressure	71	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	71	P.S.I.	60	Mins. 60 Mins.
D Initial Closed-in Pressure	1596	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	70	P.S.I.	60	Mins. 63 Mins.
F Second Final Flow Pressure	70	P.S.I.		
G Final Closed-in Pressure	1523	P.S.I.		
H Final Hydrostatic Mud	2031	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	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.							
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 <u>0</u>	<u>71</u>	<u>0</u>	<u>71</u>	<u>0</u>	<u>70</u>	<u>0</u>	<u>70</u>	
P 2 <u>5</u>	<u>71</u>	<u>3</u>	<u>71</u>	<u>5</u>	<u>70</u>	<u>3</u>	<u>817</u>	
P 3 <u>10</u>	<u>71</u>	<u>6</u>	<u>892</u>	<u>10</u>	<u>70</u>	<u>6</u>	<u>1079</u>	
P 4 <u>15</u>	<u>71</u>	<u>9</u>	<u>1182</u>	<u>15</u>	<u>70</u>	<u>9</u>	<u>1203</u>	
P 5 <u>20</u>	<u>71</u>	<u>12</u>	<u>1309</u>	<u>20</u>	<u>70</u>	<u>12</u>	<u>1266</u>	
P 6 <u>25</u>	<u>71</u>	<u>15</u>	<u>1388</u>	<u>25</u>	<u>70</u>	<u>15</u>	<u>1314</u>	
P 7 <u>30</u>	<u>71</u>	<u>18</u>	<u>1436</u>	<u>30</u>	<u>70</u>	<u>18</u>	<u>1347</u>	
P 8		<u>21</u>	<u>1456</u>	<u>35</u>	<u>70</u>	<u>21</u>	<u>1371</u>	
P 9		<u>24</u>	<u>1481</u>	<u>40</u>	<u>70</u>	<u>24</u>	<u>1390</u>	
P10		<u>27</u>	<u>1502</u>	<u>45</u>	<u>70</u>	<u>27</u>	<u>1407</u>	
P11		<u>30</u>	<u>1514</u>	<u>50</u>	<u>70</u>	<u>30</u>	<u>1424</u>	
P12		<u>33</u>	<u>1526</u>	<u>55</u>	<u>70</u>	<u>33</u>	<u>1438</u>	
P13		<u>36</u>	<u>1539</u>	<u>60</u>	<u>70</u>	<u>36</u>	<u>1452</u>	
P14		<u>39</u>	<u>1550</u>			<u>39</u>	<u>1466</u>	
P15		<u>42</u>	<u>1557</u>			<u>42</u>	<u>1474</u>	
P16		<u>45</u>	<u>1565</u>			<u>45</u>	<u>1483</u>	
P17		<u>48</u>	<u>1573</u>			<u>48</u>	<u>1492</u>	
P18		<u>51</u>	<u>1577</u>			<u>51</u>	<u>1500</u>	
P19		<u>54</u>	<u>1581</u>			<u>54</u>	<u>1506</u>	
P20		<u>57</u>	<u>1586</u>			<u>57</u>	<u>1512</u>	
WTC - 4		<u>60</u>	<u>1596</u>			<u>60</u>	<u>1517</u>	
						<u>63</u>	<u>1523</u>	