



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº 3143

P. O. BOX 1599 PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 1745 GL Formation Miss Eff. Pay _____ Ft.

A210 District PEATH Date 7-8-84 Customer Order No. _____
COMPANY NAME Associated Petroleum Cons. ~~Co.~~ Inc.
ADDRESS Suite 600 One Main Place Wichita 67202-1399
LEASE AND WELL NO. 7 HAAS COUNTY Darbec STATE KANSAS Sec. 10 Twp. 31s Rge. 12w
Mail Invoice To #7 HAAS Co. Name SAME Address _____ No. Copies Requested Reg
Mail Charts To ESTATE SAME Address _____ No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 4432 ft. to 4470 ft. Total Depth 4512 ft.
Packer Depth 4432 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4470 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4445 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 4448 ft. Recorder Number 13267 Cap. 4050
Below Straddle Recorder Depth 4509 ft. Recorder Number WTC Cap. ?
Drilling Contractor Headland Drilling Drill Collar Length 275 I. D. 2 1/4 in.
Mud Type Chem Viscosity 43 Weight Pipe Length _____ I. D. _____ in.
Weight 7.5 Water Loss 16.9 cc. Drill Pipe Length 4017 I. D. 3.8 in.
Chlorides 12,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make NO Serial Number _____ Anchor Length 38 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 2 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Very weak flow on initial flow period
few bubbles on final flow
Recovered _____ ft. of _____
Recovered 15 ft. of Drilling mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Chlorides _____ P.P.M. Sample Jars used _____ Remarks: 4 1/2' tool pipe 31' 4 1/2' drill pipe - 1 1/4' perf.

RECEIVED
JUL 10 1984

Time On Location 8:00 A.M. Time Pick Up Tool 8:40 A.M. Time Off Location 5:00 A.M.
Time Set Packer(s) 10:30 A.M. Time Started Off Bottom 2:30 A.M. Maximum Temperature 128 ef
Initial Hydrostatic Pressure _____ (A) 2128 P.S.I.
Initial Flow Period _____ Minutes (B) 23 P.S.I. to (C) 22 P.S.I.
Initial Closed In Period _____ Minutes (D) 83 P.S.I.
Final Flow Period _____ Minutes (E) 72 P.S.I. to (F) 62 P.S.I.
Final Closed In Period _____ Minutes (G) 62 P.S.I.
Final Hydrostatic Pressure _____ (H) 2167 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 John D. Howard Jr.
Signature of Customer or his authorized representative

Western Representative Doc Irith Thank you

FIELD INVOICE

Open Hole Test \$ 595
Misrun \$ _____
Straddle Test \$ 1300
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 1895

WESTERN TESTING CO., INC.

Pressure Data

Date 7-8

Test Ticket No. 3143

Recorder No. 2606

Capacity

Location

Ft.

Clock No.

Elevation

Well Temperature °F

Point	Pressure	P.S.I.
A Initial Hydrostatic Mud	<u>2176</u>	P.S.I.
B First Initial Flow Pressure	<u>50</u>	P.S.I.
C First Final Flow Pressure	<u>50</u>	P.S.I.
D Initial Closed-in Pressure	<u>60</u>	P.S.I.
E Second Initial Flow Pressure	<u>48</u>	P.S.I.
F Second Final Flow Pressure	<u>48</u>	P.S.I.
G Final Closed-in Pressure	<u>52</u>	P.S.I.
H Final Hydrostatic Mud	<u>2170</u>	P.S.I.

Open Tool	M	Time Given	Time Computed
First Flow Pressure		<u>30</u>	<u>30</u>
Initial Closed-in Pressure		<u>60</u>	<u>54</u>
Second Flow Pressure		<u>60</u>	<u>60</u>
Final Closed-in Pressure		<u>90</u>	<u>87</u>

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>19</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>30</u> 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.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		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>50</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>48</u>
P 2 <u>5</u>	<u>/</u>	<u>3</u>	<u>/</u>	<u>5</u>	<u>/</u>	<u>3</u>	<u>/</u>
P 3 <u>10</u>	<u>/</u>	<u>6</u>	<u>/</u>	<u>10</u>	<u>/</u>	<u>6</u>	<u>/</u>
P 4 <u>15</u>	<u>/</u>	<u>9</u>	<u>/</u>	<u>15</u>	<u>/</u>	<u>9</u>	<u>/</u>
P 5 <u>20</u>	<u>/</u>	<u>12</u>	<u>/</u>	<u>20</u>	<u>/</u>	<u>12</u>	<u>/</u>
P 6 <u>25</u>	<u>/</u>	<u>15</u>	<u>/</u>	<u>25</u>	<u>/</u>	<u>15</u>	<u>48</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>/</u>	<u>30</u>	<u>/</u>	<u>18</u>	<u>/</u>
P 8 <u>35</u>	<u>/</u>	<u>21</u>	<u>50</u>	<u>35</u>	<u>/</u>	<u>21</u>	<u>/</u>
P 9 <u>40</u>	<u>/</u>	<u>24</u>	<u>51</u>	<u>40</u>	<u>/</u>	<u>24</u>	<u>/</u>
P 10 <u>45</u>	<u>/</u>	<u>27</u>	<u>52</u>	<u>45</u>	<u>/</u>	<u>27</u>	<u>/</u>
P 11 <u>50</u>	<u>/</u>	<u>30</u>	<u>53</u>	<u>50</u>	<u>/</u>	<u>30</u>	<u>48</u>
P 12 <u>55</u>	<u>/</u>	<u>33</u>	<u>54</u>	<u>55</u>	<u>/</u>	<u>33</u>	<u>/</u>
P 13 <u>60</u>	<u>/</u>	<u>36</u>	<u>55</u>	<u>60</u>	<u>48</u>	<u>36</u>	<u>/</u>
P 14 <u>65</u>	<u>/</u>	<u>39</u>	<u>56</u>	<u>65</u>	<u>/</u>	<u>39</u>	<u>/</u>
P 15 <u>70</u>	<u>/</u>	<u>42</u>	<u>57</u>	<u>70</u>	<u>/</u>	<u>42</u>	<u>/</u>
P 16 <u>75</u>	<u>/</u>	<u>45</u>	<u>58</u>	<u>75</u>	<u>/</u>	<u>45</u>	<u>48</u>
P 17 <u>80</u>	<u>/</u>	<u>48</u>	<u>59</u>	<u>80</u>	<u>/</u>	<u>48</u>	<u>/</u>
P 18 <u>85</u>	<u>/</u>	<u>51</u>	<u>60</u>	<u>85</u>	<u>/</u>	<u>51</u>	<u>/</u>
P 19 <u>90</u>	<u>/</u>	<u>54</u>	<u>60</u>	<u>90</u>	<u>/</u>	<u>54</u>	<u>/</u>
P 20 <u>95</u>	<u>/</u>	<u>57</u>	<u>/</u>	<u>95</u>	<u>/</u>	<u>57</u>	<u>/</u>
		<u>60</u>	<u>/</u>			<u>60</u>	<u>48</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 3143

Recorder No. _____ Capacity _____ Location _____ Ft.

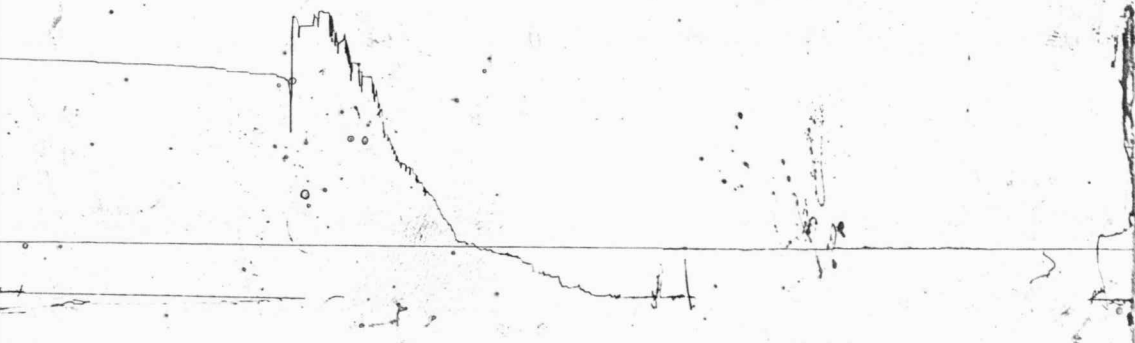
Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____ P.S.I.		Open Tool _____ M _____		
B First Initial Flow Pressure _____ P.S.I.		First Flow Pressure _____ Mins. _____ Mins.		
C First Final Flow Pressure _____ P.S.I.		Initial Closed-in Pressure _____ Mins. _____ Mins.		
D Initial Closed-in Pressure _____ 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 _____ P.S.I.				

PRESSURE BREAKDOWN

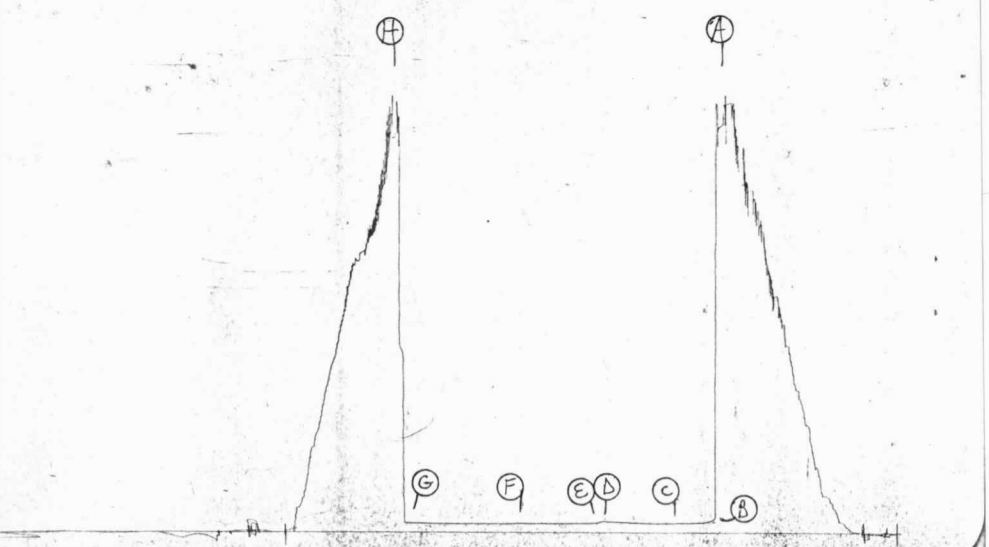
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 _____	_____	63 _____	_____	_____	_____	63 _____	49
P 2 _____	_____	66 _____	_____	_____	_____	66 _____	49
P 3 _____	_____	69 _____	_____	_____	_____	69 _____	49
P 4 _____	_____	72 _____	_____	_____	_____	72 _____	50
P 5 _____	_____	75 _____	_____	_____	_____	75 _____	50
P 6 _____	_____	78 _____	_____	_____	_____	78 _____	50
P 7 _____	_____	81 _____	_____	_____	_____	81 _____	51
P 8 _____	_____	84 _____	_____	_____	_____	84 _____	51
P 9 _____	_____	87 _____	_____	_____	_____	87 _____	52
P10 _____	_____	90 _____	_____	_____	_____	90 _____	_____
P11 _____	_____	93 _____	_____	_____	_____	93 _____	_____
P12 _____	_____	96 _____	_____	_____	_____	96 _____	_____
P13 _____	_____	99 _____	_____	_____	_____	99 _____	_____
P14 _____	_____	102 _____	_____	_____	_____	102 _____	_____
P15 _____	_____	105 _____	_____	_____	_____	105 _____	_____
P16 _____	_____	108 _____	_____	_____	_____	108 _____	_____
P17 _____	_____	111 _____	_____	_____	_____	111 _____	_____
P18 _____	_____	114 _____	_____	_____	_____	114 _____	_____
P19 _____	_____	117 _____	_____	_____	_____	117 _____	_____
P20 _____	_____	120 _____	_____	_____	_____	120 _____	_____

TKT # 3143
Below Straddle



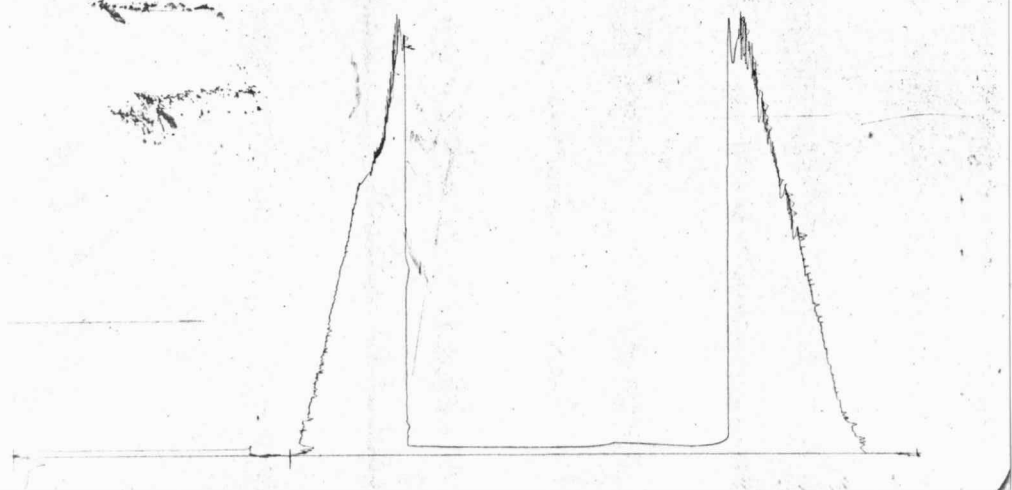
2606 DST#1

TKT # 3143
I

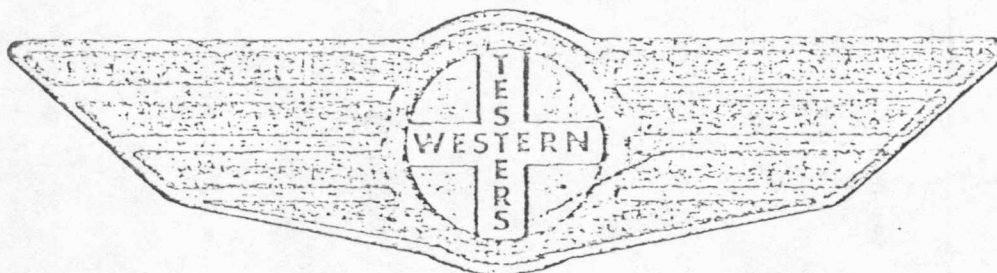


13267 DST#1

TKT # 3143
O



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 7/8/84
CUSTOMER: A.P.C. INC.
WELL: #7
ELEVATION (KB): 1780
SECTION: 10
RANGE: 12W
GAUGE SN #2606

TEST: 1
FORMATION: MISS
TOWNSHIP: 31S
COUNTY: BARBER
RANGE: 4150

TICKET #3143
LEASE: HAAS ESTATE
GEOLOGIST: HOWARD
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4432 FT TO: 4470 FT TOTAL DEPTH: 4512 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4432 FT SIZE: 6 5/8 IN PACKER DEPTH: 4470 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: HEARTLAND
MUD TYPE: CHEM VISCOSITY: 43
WEIGHT: 9.5 WATER LOSS (CC): 16.9
CHLORIDES (P.P.M.): 12000
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 395 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4017 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 38 FT SIZE: 5 1/2 O.D. IN
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: INITIAL FLOW PERIOD VERY WEAK BLOW.
FINAL FLOW PERIOD FEW BUBBLES.

RECOVERED: 15	FT	OF: DRLG MUD.
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:
RECOVERED:	FT	OF:

REMARKS: 42' OF TAILPIPE
(31' 4 1/2 DRILLPIPE 11' PERF.)

TIME SET PACKER(S): 10:30 A.M.	TIME STARTED OFF BOTTOM: 2:30 P.M.
WELL TEMPERATURE: 128 °F	
INITIAL HYDROSTATIC PRESSURE:	(A) 2176 PSI
INITIAL FLOW PERIOD MIN: 30	(B) 50 PSI TO (C) 50 PSI
INITIAL CLOSED IN PERIOD MIN: 54	(D) 60 PSI
FINAL FLOW PERIOD MIN: 60	(E) 48 PSI TO (F) 48 PSI
FINAL CLOSED IN PERIOD MIN: 87	(G) 52 PSI
FINAL HYDROSTATIC PRESSURE	(H) 2170 PSI

TICKET #3143
LEASE: HAAS ESTATE
GEOLOGIST: HOWARD
MISS
315
STATE: KANSAS
CLOCK: 12

PSI
PSI
PSI
PSI
PSI
PSI
PSI
PSI
'F

TIME - GIVEN	TIME - ACTUAL
30 MIN	30 MIN
60 MIN	54 MIN
60 MIN	60 MIN
90 MIN	87 MIN

[illegible]