

WELL NAME: HJV Winter A #1
COMPANY: Anadarko Petroleum Corp.
LOCATION: 1-28s-34w
Haskell co KS
DATE: 9/6/00

TRILOBITE TESTING L.L.C.

OPERATOR : Anadarko Petroleum Corp.
WELL NAME: HJV Winters A #1
LOCATION : 1-28S-34W Haskell co KS
INTERVAL : 4760.00 To 4773.00 ft

DATE 8-31-00
KB 3046.00 ft TICKET NO: 13034 DST #1
GR 3035.00 ft FORMATION: Marmaton
TD 4773.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	3246			PF Fr. 0402 to 0432 hr
SI 60 Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 0432 to 0532 hr
SF 60 Clock(hrs)	12 HR	12 HR	ALP			SF Fr. 0532 to 0632 hr
FS 120 Depth(ft)	4768.0	4768.0	4762.0	0.0	0.0	FS Fr. 0632 to 0832 hr

	Field	1	2	3	4	
A. Init Hydro	2323.0	2305.0	2368.0	0.0	0.0	T STARTED 0121 hr
B. First Flow	83.0	92.0	27.0	0.0	0.0	T ON BOTM 0400 hr
B1. Final Flow	104.0	104.0	131.0	0.0	0.0	T OPEN 0402 hr
C. In Shut-in	1391.0	1393.0	1418.0	0.0	0.0	T PULLED 0832 hr
D. Init Flow	176.0	194.0	141.0	0.0	0.0	T OUT 1100 hr
E. Final Flow	249.0	256.0	282.0	0.0	0.0	
F. Fl Shut-in	1401.0	1394.0	1420.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2293.0	2275.0	2287.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 110000.00 lbs
						Initial Str Wt 90000.00 lbs
						Unseated Str Wt 100000.00 lbs
						Bot Choke 0.75 in
						Hole Size 8.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 630.00 ft
						D.P. Length 4123.00 ft

RECOVERY

Tot Fluid 550.00 ft of 550.00 ft in DC and 0.00 ft in DP
550.00 ft of Salt Water
0.00 ft of 100% water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of RW .10 @ 70 deg =
SALINITY 80000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Weak surface blow built to 6"
Initial Shut-In:
No return blow
Final Flow:
Weak surface return in 5 minutes.
built to 2"
Final Shut-In:
No return blow

SAMPLES:
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 9.00 lb/cf
Vis. 42.00 S/L
W.L. 8.80 in3
F.C. 0.00 in
Mud Drop N

Amt. of fill 0.00 ft
Btm. H. Temp. 126.00 F
Hole Condition Good
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester Rod Seinbrink
Co. Rep. Jim Barlow
Contr. Norseman
Rig # 3
Unit #
Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: HJV Winters A #1	P.O. SUB 1' Above 120' DC	4610
	C.O. SUB 1'	4730
LOCATION : 1-28S-34W Haskell co KS	S.I. TOOL 5'	4736
TICKET No. 13034 D.S.T. No. 1 DATE 8-31-00	3' Sampler	4739
TOTAL TOOL TO BOTTOM OF TOP PACKERS 31	HMV 5'	4744
INTERVAL TOOL 13	JARS 5'	4749
BOTTOM PACKERS AND ANCHOR		
TOTAL TOOL 44		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT 2'	4751
D.P. ANCHOR STND.Stands Single Total	PACKER 4'	4755
TOTAL ASSEMBLY 44	PACKER 5'	4760
D.C. ABOVE TOOLS.Stands7 Single Total 630	DEPTH	
D.P. ABOVE TOOLS.Stands44 Single 1 Total 4123	1'	4761
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4797	ANCHOR	
	ALP Rec. @	4762
TOTAL DEPTH 4773	7' Perf	4768
TOTAL DRILL PIPE ABOVE K.B. 24		
REMARKS:		
Sampler Data;		
Gas;		
Oil;		
Water; 4000 ml		
Mud;		
Total Volume; 4000 ml		
Pressure; 300 psi		
RW .10 @ 70 deg = 80,000 chlor.		
	AK-1 Rec. @	4768
	BULLNOSE 5'	
	T.D.	4773

TEST HISTORY

13034 DST #1 HJV Winter A #1 Anadarko Petroleum Corp.

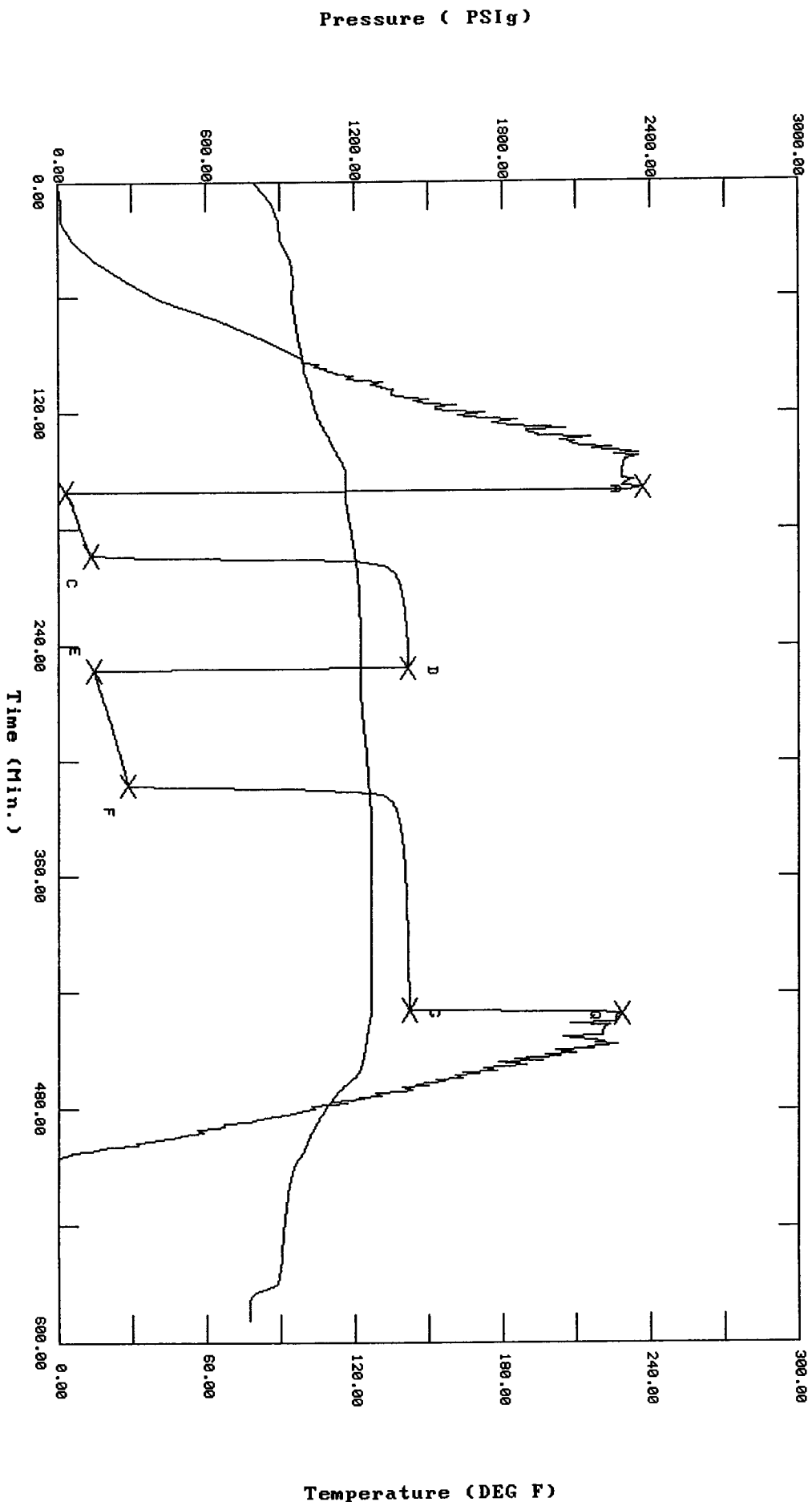
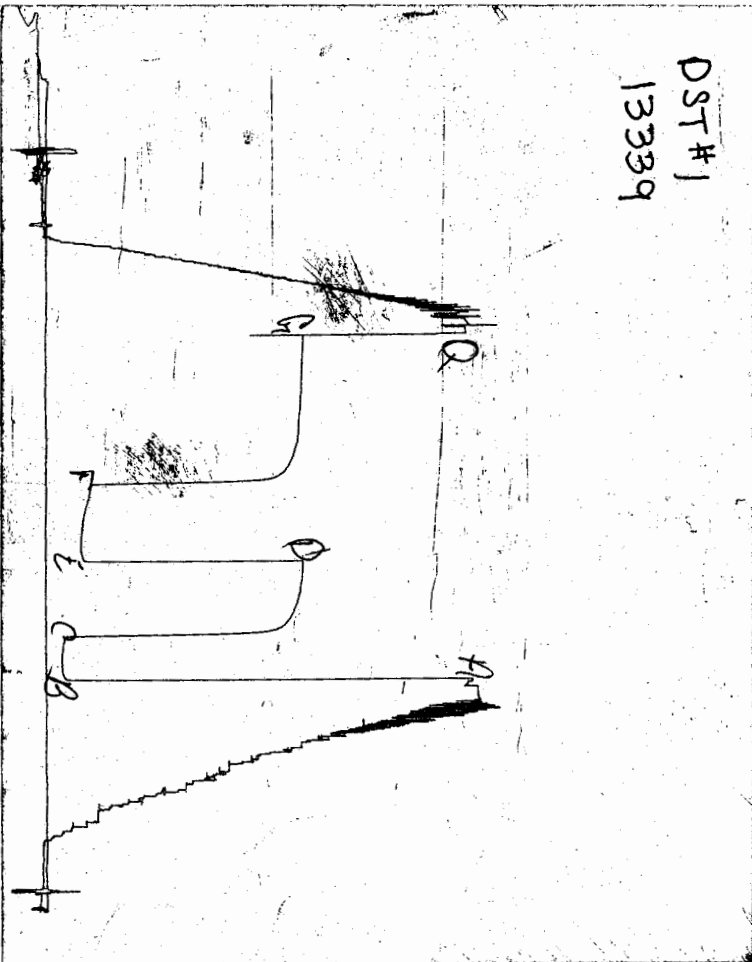


CHART PAGE

DST#1

13339



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 13034 Date 8-31-00
Company Name Anadarko Petroleum Corp. Cont Norseman #3
Lease HJV Winter A #1 Test No. #1 Marmaton
County Haskell KS. Sec. 1 Twp. 28^S Rng. 34^W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 4,000 ML
Other _____ ML
Pressure 300[#] PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 900 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 42
Mud Weight 9.0
Filtrate 8.8
Other LCM 4¹/66

SAMPLER ANALYSIS

Resistivity .10 ohms @ 70[°] F
Chlorides 80,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .10 ohms @ 75 F
Chlorides 75,000 ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity .10 ohms @ 70[°] F
Chlorides 80,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13034

Test Ticket

Well Name & No. <u>HJV Winter A #1</u>	Test No. <u>1</u>	Date <u>8-31-00</u>
Company <u>Anadarko Petroleum Corp.</u>	Zone Tested <u>Marmaton</u>	
Address <u>P.O. Box 351 Liberal KS. 67905-0351</u>	Elevation <u>3046</u> KB <u>3035</u> GL	
Co. Rep / Geo. <u>Jim Barlow</u>	Cont. <u>Norseman #3</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>I</u> Twp. <u>28^S</u> Rge. <u>34^W</u>	Co. <u>Haskell</u> State <u>KS.</u>	
No. of Copies <u> </u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>4760 - 4773</u>	Initial Str Wt./Lbs. <u>90,000</u>	Unseated Str Wt./Lbs. <u>100,000</u>
Anchor Length <u>13'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>110,000</u>
Top Packer Depth <u>4755</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>4760</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>4773</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>630' (7)</u>
Mud Wt. <u>9.0</u> LCM <u>4#</u> Vis. <u>42</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>4123' (44.1)</u>
Blow Description <u>IF: Weak surface blow built to 6"</u>		
<u>ISI: No return blow</u>		
<u>FF: Weak surface return in 5 mins. built to 2"</u>		
<u>FSI: No return blow</u>		

Recovery — Total Feet <u>550'</u>	GIP <u> </u>	Ft. in DC <u>550'</u>	Ft. in DP <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u>550'</u> Feet Of <u>Salt Water</u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u>
BHT <u>126°</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u>10</u> @ <u>70°</u> °F Chlorides <u>80,000</u> ppm Recovery	Chlorides <u>900</u> ppm System		

(A) Initial Hydrostatic Mud <u>2323</u>	AK-1 <u>2368</u>	Alpine <u>2368</u>	PSI Recorder No. <u>3246</u>	T-On Location <u>2330 (8-30)</u>
(B) First Initial Flow Pressure <u>83</u>	<u>27</u>	<u>27</u>	PSI (depth) <u>4762</u>	T-Started <u>0030</u> <u>0121</u> <u>1151</u>
(C) First Final Flow Pressure <u>104</u>	<u>131</u>	<u>131</u>	PSI Recorder No. <u>13339</u>	T-Open <u>0402</u>
(D) Initial Shut-In Pressure <u>1391</u>	<u>1418</u>	<u>1418</u>	PSI (depth) <u>4768</u>	T-Pulled <u>0832</u>
(E) Second Initial Flow Pressure <u>176</u>	<u>141</u>	<u>141</u>	PSI Recorder No. <u> </u>	T-Out <u>1100</u>
(F) Second Final Flow Pressure <u>249</u>	<u>282</u>	<u>282</u>	PSI (depth) <u> </u>	T-Off Location <u>1200</u>
(G) Final Shut-in Pressure <u>1401</u>	<u>1420</u>	<u>1420</u>	PSI Initial Opening <u>30</u>	Test <u>750</u>
(Q) Final Hydrostatic Mud <u>2293</u>	<u>2287</u>	<u>2287</u>	PSI Initial Shut-in <u>60</u>	Jars <u>X</u> <u>200</u>
			Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50</u>
			Final Shut-in <u>120</u>	Straddle <u> </u>
				Circ. Sub <u>X</u> <u>N/C</u>
				Sampler <u>X</u> <u>200</u>
				Extra Packer <u> </u>
				Elec. Rec. <u>X</u> <u>150</u>
				Mileage <u>67</u> <u>49</u>
				Other <u>2.5</u> <u>75</u>
				TOTAL PRICE \$ <u>1474</u>

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Approved By Jim Barlow

Our Representative Rod Steinbrink

Well Name HSV winter

DST Number 1

Recorder Number 13339

A: 2.282

2305

B: .089

92

C: .100

104

D: 1.372

1393

E: .187

194

F: .277

256

G: 1.373

1394

Q: 2.252

2275