

Well Name: HJV Baughman "C-1"
Company: Anadarko Petroleum Corp.
Location: 16-31s-34w
Seward co KS
Date: 1-20-00

TRILOBITE TESTING L.L.C.

OPERATOR : Anadarko Petroleum Corp.
WELL NAME: HJV Baughman "C-1"
LOCATION : 16-31S-34W Seward co KS
INTERVAL : 4668.00 To 4699.00 ft

DATE 1-13-00
KB 2783.00 ft TICKET NO: 12503 DST #1
GR 2772.00 ft FORMATION: Marmaton
TD 4699.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10242	10242	Alpine			PF Fr. 1600 to 1630 hr
SI 60 Range(Psi)	4175.0	4175.0	5000.0	0.0	0.0	IS Fr. 1630 to 1730 hr
SF 30 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 1730 to 1800 hr
FS 60 Depth(ft)	4696.0	4696.0	4670.0	0.0	0.0	FS Fr. 1800 to 1900 hr

	Field	1	2	3	4	
A. Init Hydro	2279.0	2320.0	2189.0	0.0	0.0	T STARTED 1345 hr
B. First Flow	67.0	88.0	35.0	0.0	0.0	T ON BOTM 1558 hr
B1. Final Flow	72.0	88.0	76.0	0.0	0.0	T OPEN 1600 hr
C. In Shut-in	1412.0	1421.0	1405.0	0.0	0.0	T PULLED 1900 hr
D. Init Flow	84.0	112.0	59.0	0.0	0.0	T OUT 2215 hr
E. Final Flow	98.0	118.0	106.0	0.0	0.0	
F. Fl Shut-in	1412.0	1424.0	1412.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2156.0	2192.0	2111.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 24000.00 lbs
						Wt Pulled Loose 16000.00 lbs
						Initial Str Wt 94000.00 lbs
						Unseated Str Wt 94000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 611.00 ft
						D.P. Length 4032.00 ft

RECOVERY

Tot Fluid 190.00 ft of 190.00 ft in DC and 0.00 ft in DP
4453.00 ft of Gas in Pipe.
70.00 ft of Mud cut water
0.00 ft of 60% water 40% mud
120.00 ft of Gassy Water
0.00 ft of 3% gas 97% water
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 52000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Strong bottom of bucket immediately.
Gas to surface in 8 minutes. Gauged
21,900 CFPD.
Initial Shut-In:
No blow back.
Final Flow:
Gauged 24,500 CFPD in 30 minutes.
Final Shut-In:
No blow back.
Remarks:
Established 16 feet of pay. Gas
burned. Test cut short due to sticky
hole conditions.
SAMPLES: One
SENT TO:Caraway

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	38.00 S/L
W.L.	10.60 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 F
Hole Condition	Sticky
% Porosity	20.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Jim Barlow
Contr.	Norseman
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: Anadarko Petroleum Corp.

DATE: 1-13-00

WELL NAME: HJV Baughman "C-1"

KB Elev: 2783.00 ft TICKET #12503 DST #1

WELL LOCATION: 16-31S-34W Seward co KS

GR Elev: 2772.00 ft FORMATION: Marmaton

INTERVAL Fr.: 4668.00 To 4699.00 T.D.: 4699.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orifice

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.50	0	12	21900.0
20	0.50	0	12	21900.0
30	0.50	0	11	20900.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.50	0	22	29400.0
20	0.50	0	13	22800.0
30	0.50	0	15	24500.0

Caraway Analytical, Inc.
728 N. Roosevelt
P. O. Box 2137
Liberal, Kansas 67905
rcaraway@bigfoot.com

Phone 316-624-5389
Fax 316-626-7108

Fractional Analysis

Components		Mol %	GPM	Date Run	01/14/2000
Carbon Dioxide	CO2	0.0808		Lab Number	20000208
Nitrogen	N2	6.4161		Company	APC
Methane	C1	81.9946	13.7806	Producer	APC
Ethane	C2	5.4865	1.4640	Lease	HJV Bauchman C-1
Propane	C3	3.1727	0.8722	Station	000000
Iso Butane	iC4	0.4446	0.1451	Pressure	
Normal Butane	nC4	1.0508	0.3305	Temperature	
Iso Pentane	iC5	0.2728	0.0996	Cylinder No.	
Normal Pentane	nC5	0.3233	0.1168	Analysis by	Robert Caraway
Hexanes Plus	C6+	0.5052	0.2170	Sampled by	Lanny Saloga
Helium	He	0.2526		Sample Date	01/13/2000
				Received	01/14/2000
				Location	16-31-34 Sw
				H2S	
Totals		100.0000	17.0258		

Gasoline Content @ 14.65 psia & 60 F

		Remarks
Propane & Heavier	1.7812	DST 1
Butane & Heavier	0.9090	Marmaton
Pentane & Heavier	0.4334	

BTU @ 14.65 psia & 60 F (Real)

		Results to
Dry	1102.7	Anadarko Petroleum Corp.
Saturated	1083.5	Liberal, Kansas
Z-Factor	0.9973	Att: Dale Fiorini/Pat Rich

Specific Gravity	0.6863
Octane Rating	117.2

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: HJV Baughman "C-1"

LOCATION : 16-31S-34W Seward co KS

TICKET No. 12503 D.S.T. No. 1 DATE 1-13-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 31

TOTAL TOOL 61

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands 6 Single 2 Total 611

D.P. ABOVE TOOLS.Stands 43 Single 1 Total 4032

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4704

TOTAL DEPTH 4699

TOTAL DRILL PIPE ABOVE K.B. 5

REMARKS:

FLUID SAMPLER DATA

Total Vol. 4000 ML.

Total Vol. Rec. 2200 ML.

Oil 0 ML.

Mud 0 ML.

Wtr. 2200 ML.

Gas 9.2 CF.

Psi. 1200

Bht. 117 F.

Pit RW. 5.1 Ohms at 64 F. 1,200 PPM.

Rec RW. 0.34 Ohms at 30 F. 52,000 PPM.

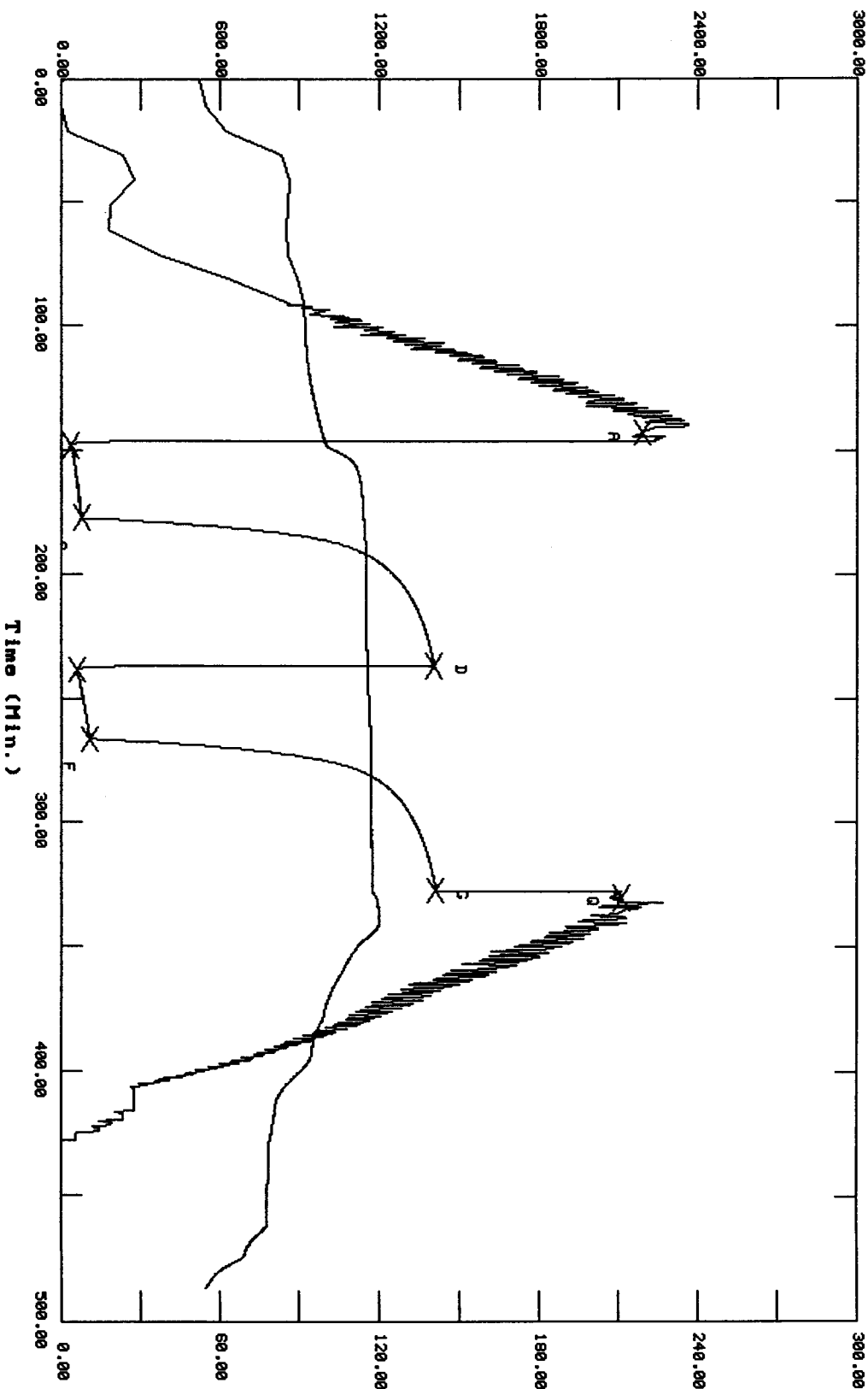
Gravity -- at -- F.

P.O. SUB Cir. sub	4548
C.O. SUB Top of tool	4638
Double pin	4639
S.I. TOOL H&T	4644
Sampler	4647
HMV Sterling	4652
JARS Bowen	4657
SAFETY JOINT Bowen	4659
PACKER Sparton	4664
PACKER Sparton	4668
DEPTH	
1 ft.	4669
ANCHOR Rec. sub	4670
Alpine	4670
Pu. sub	4675
AK-1	4696
22 ft. perfs	4697
BULLNOSE 2 ft. perf	
T.D.	4699

TEST HISTORY

Flag Points
t(Min.) P (PSig)

A	0.00	2189.86
B	0.00	35.89
C	29.58	76.31
D	59.25	1405.05
E	0.00	59.61
F	28.00	106.57
G	61.00	1412.28
H	0.00	2111.00

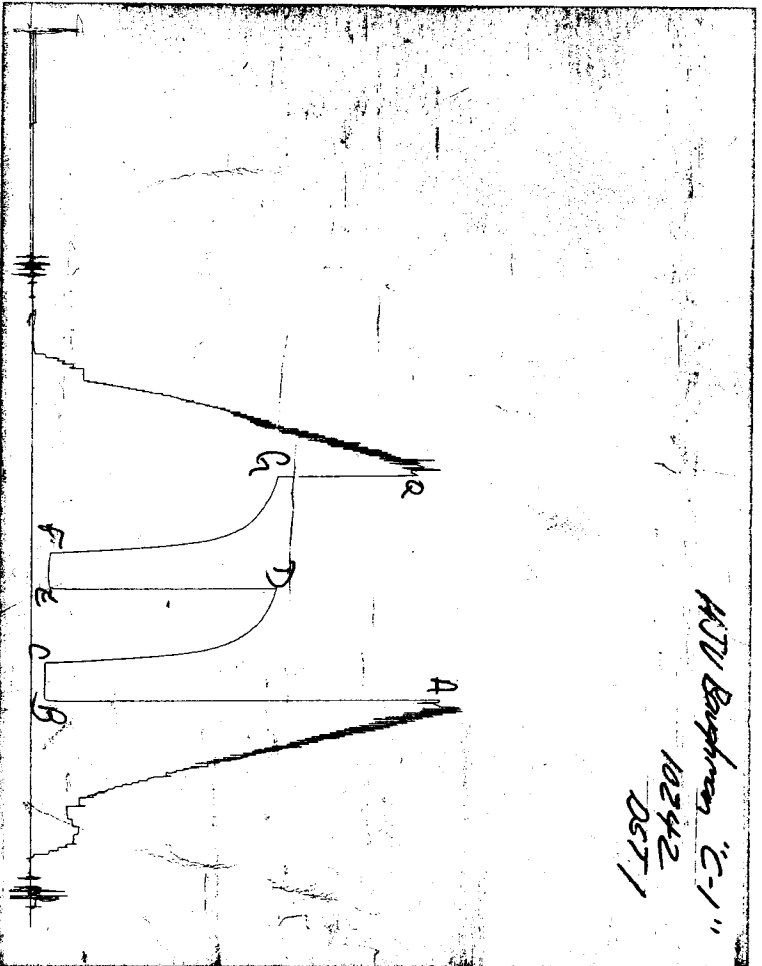


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

CHART PAGE



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



GAS VOLUME REPORT

DST NO.

Z.F.P.

FFP

Remarks: Gas burned

1 sample caught to = Caranx

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 12503 Date 1-13-00

Company Name Amadato Pet.

Lease HJV Baughman "C-1" Test No. 1

County Seward KS Sec. 16 Twp. 31S Rng. 34W

SAMPLER RECOVERY

Gas 9.2 CFE ~~ML~~

Oil 0 ML

Mud 0 ML

Water 2200 ML

Other 0 ML

Pressure 1200 PSI

Total Vol. Rec. = 2200 ML

Total Vol. of chamber = 4000 ML

PIT MUD ANALYSIS

Chlorides 1,200 ppm.

Resistivity 5.1 ohms @ 64 F

Viscosity 38

Mud Weight 9.0

Filtrate 10.6

Other 8# L.C.M.

SAMPLER ANALYSIS

Resistivity 0.34 ohms @ 30° F

Chlorides 52,000 ppm.

Gravity corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity ohms @ F

Chlorides ppm.

MIDDLE
Resistivity ohms @ F

Chlorides ppm.

BOTTOM
Resistivity ohms @ F

Chlorides ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12503

Well Name & No.	<u>HIV Baughman "C-1"</u>	Test No.	<u>1</u>	Date	<u>1-13-00</u>
Company	<u>Amadeks Pet. Corp.</u>	Zone Tested	<u>Mountain</u>		
Address	<u>Houston Tx. & Liberal Ks.</u>	Elevation	<u>2783</u>	KB	<u>2772</u> GL
Co. Rep / Geo.	<u>Tim Barlow</u>	Cont.	<u>Nacogdoches Rgt #1</u>	Est. Ft. of Pay	<u>16</u> Por. <u>20</u> %
Location: Sec.	<u>16</u>	Twp.	<u>31S</u>	Rge.	<u>34W</u> Co. <u>Seward</u> State <u>Ks.</u>
No. of Copies	<u>Rep</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u></u>

Interval Tested 4668 - 4699 Initial Str Wt./Lbs. 9400 Unseated Str Wt./Lbs. 24000
Anchor Length 31' Tail = 30' Wt. Set Lbs. 24000 Wt. Pulled Loose/Lbs. 16000
Top Packer Depth 4663 Tool Weight 1800
Bottom Packer Depth 4668 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 4699 Wt. Pipe Run 4801 Drill Collar Run 6
Mud Wt. 9.0 LCM 8# Vis. 38 WL 10.6 Drill Pipe Size 4 1/2 KH Ft. Run 4032 5' 10"
Blow Description Strong OBB in mud GTS in 8 min. See Flow Chart F.F.P.
No blow-back. T.S.T.P.
See Flow Chart F.F.P.
No blow-back F.S.T.P. REMARK: Cut test short. "Sticky hole condition"

Recovery — Total Feet 190 GIP 4453 Ft. in DC 190 Ft. in DP 0
Rec. 70 Feet Of Hard cut MTH %gas %oil 60 %water 40 %mud
Rec. 120 Feet Of Grassy MTH 3 %gas %oil 97 %water %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
BHT 117 °F Gravity — °API D@ — °F Corrected Gravity — °API
RW 0.34 @ 30 °F Chlorides 52000 ppm Recovery Chlorides 1200 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2279</u>	<u>2189</u>		<u>3017 "13:34"</u>	<u>11:15 AM</u>
(B) First Initial Flow Pressure	<u>67</u>	<u>35</u>	PSI (depth)	<u>4670</u>	T-Started <u>1:45 PM</u>
(C) First Final Flow Pressure	<u>72</u>	<u>76</u>	PSI Recorder No.	<u>10242</u>	T-Open <u>4:00 PM</u>
(D) Initial Shut-In Pressure	<u>1412</u>	<u>1405</u>	PSI (depth)	<u>4696</u>	T-Pulled <u>7:00 PM</u>
(E) Second Initial Flow Pressure	<u>84</u>	<u>59</u>	PSI Recorder No.		T-Out <u>10:15 PM</u>
(F) Second Final Flow Pressure	<u>98</u>	<u>106</u>	PSI (depth)		T-Off Location
(G) Final Shut-in Pressure	<u>1412</u>	<u>1412</u>	PSI Initial Opening	<u>30</u>	Test <u>700</u> ✓
(Q) Final Hydrostatic Mud	<u>2156</u>	<u>2111</u>	PSI Initial Shut-in	<u>60</u>	Jars <u>200</u> ✓

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Approved By Tim Barlow

Our Representative Emmy L. Salgado

Final Flow 30 Safety Joint 50 ✓
Final Shut-in 60 Straddle
Circ. Sub 1
Sampler 1200 ✓
Extra Packer
Elec. Rec. 150 ✓
Mileage
Other
TOTAL PRICE \$ 4300.00

Well Name HJV Baughman C-1
DST Number 1
Recorder Number 10242

A: 2.200 2320

B: .076 88

C: .076 88

D: 1.320 1421

E: .096 112

F: .101 118

G: 1.323 1424

Q: 2.074 2192