

ORIGINAL

CONFIDENTIAL 15-007-22566

WELL NAME:

Z-Bar Cattle Co. #6

RELEASED

COMPANY:

Woolsey Petroleum Corp.

LOCATION:

30-34S-14W

MAY 07 2001

Barber County, Kansas

DATE:

6/22/98

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Pet, Corp.
WELL NAME: Z-Bar Cattle Co, #6
LOCATION : 30-34s-14w Barber KS
INTERVAL : 3154.00 To 3250.00 ft

DATE 06/07/98
KB 1680.00 ft TICKET NO: 10793 DST #1
GR 1669.00 ft FORMATION: WABANSEE
TD 3250.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	2350			PF Fr. 2018 to 2048 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 2048 to 2148 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 2148 to 2218 hr
FS 90 Depth(ft)	3247.0	3247.0	3229.0	0.0	0.0	FS Fr. 2218 to 2348 hr

	Field	1	2	3	4	
A. Init Hydro	1579.0	1579.0	1555.0	0.0	0.0	T STARTED 1823 hr
B. First Flow	101.0	97.0	68.0	0.0	0.0	T ON BOTM 2016 hr
B1. Final Flow	101.0	99.0	92.0	0.0	0.0	T OPEN 2018 hr
C. In Shut-in	1286.0	1282.0	1293.0	0.0	0.0	T PULLED 2348 hr
D. Init Flow	111.0	113.0	95.0	0.0	0.0	T OUT 0145 hr
E. Final Flow	132.0	121.0	113.0	0.0	0.0	
F. Fl Shut-in	1296.0	1271.0	1293.0	0.0	0.0	
G. Final Hydro	1559.0	1554.0	1543.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 80.00 ft of 80.00 ft in DC and 0.00 ft in DP
20.00 ft of Drilling Mud
60.00 ft of Water Cut Mud 80% mud 20% 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
SALINITY 17000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Weak blow built to 1/2" in Bucket
Slowly died off to weak surface blow.

Initial Shutin:
no blow back

Final Flow:
Weak surface blow built to 1/4"
Died in 20 minutes

Final Shutin:
no blow back

SAMPLES:
SENT TO:

RELEASED
MAY 07 2001
FROM CONFIDENTIAL

Test Successful: Y

TOOL DATA-----
Tool Wt. 2100.00 lbs
Wt Set On Packer 20000.00 lbs
Wt Pulled Loose 44000.00 lbs
Initial Str Wt 42000.00 lbs
Unseated Str Wt 42000.00 lbs
Bot Choke 0.75 in
Hole Size 7.88 in
D Col. ID 2.25 in
D. Pipe ID 3.80 in
D.C. Length 121.00 ft
D.P. Length 3077.00 ft

MUD DATA-----
Mud Type CHEMICAL
Weight 8.90 lb/c
Vis. 42.00 S/L
W.L. 9.80 in3
F.C. 0.32 in
Mud Drop N
Amt. of fill 0.00 ft
Btm. H. Temp. 98.00 F
Hole Condition GOOD
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00 N
Cushion Type NONE
Reversed Out N
Toql Chased N
Tester Darren Amerine
Co. Rep. Mike
Contr. Duke
Rig # 5
Unit # none
Pump T.

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Z-Bar Cattle Co, #6

LOCATION : 30-34s-14w Barber KS

PICKET No. 10793 D.S.T. No. 1 DATE 06/07/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 34

TOTAL TOOL 62

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total 62

TOTAL ASSEMBLY 124

D.C. ABOVE TOOLS.Stands 2 Single Total 121

D.P. ABOVE TOOLS.Stands Single Total 3015

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3260

TOTAL DEPTH 3250

TOTAL DRILL PIPE ABOVE K.B. 10

REMARKS:

P.O. SUB Top of, tool@ 3127
C.O. SUB 3128

S.I. TOOL 3133

HMV 3138

JARS 3143

SAFETY JOINT 3145

PACKER 3149

PACKER 3154

DEPTH

STUBB 1'stubb to 3155

ANCHOR 7'of perfs.to 3162

62'stand drillpipe 3224

3224

3224

T.C.
DEPTH

alpine rec.@3229
24'of perfs.to 3248

3248

3248

AK-1 rec.@3247

BULLNOSE 2'bullnose to 3250

T.D.

RELEASED

MAY 8 3 00 PM '98

FROM CONFIDENTIAL

TEST HISTORY

Tk#10793DST#1 Z-Bar Cattle Co.#6 Woolsey Petroleum Corp.

Flag Points

t(Min.) P(PSIg)

R:	0.00	1555.34
B:	0.00	66.71
C:	29.75	92.48
D:	60.25	1292.73
E:	0.00	95.00
F:	29.25	113.21
G:	91.25	1293.40
Q:	0.00	1542.58

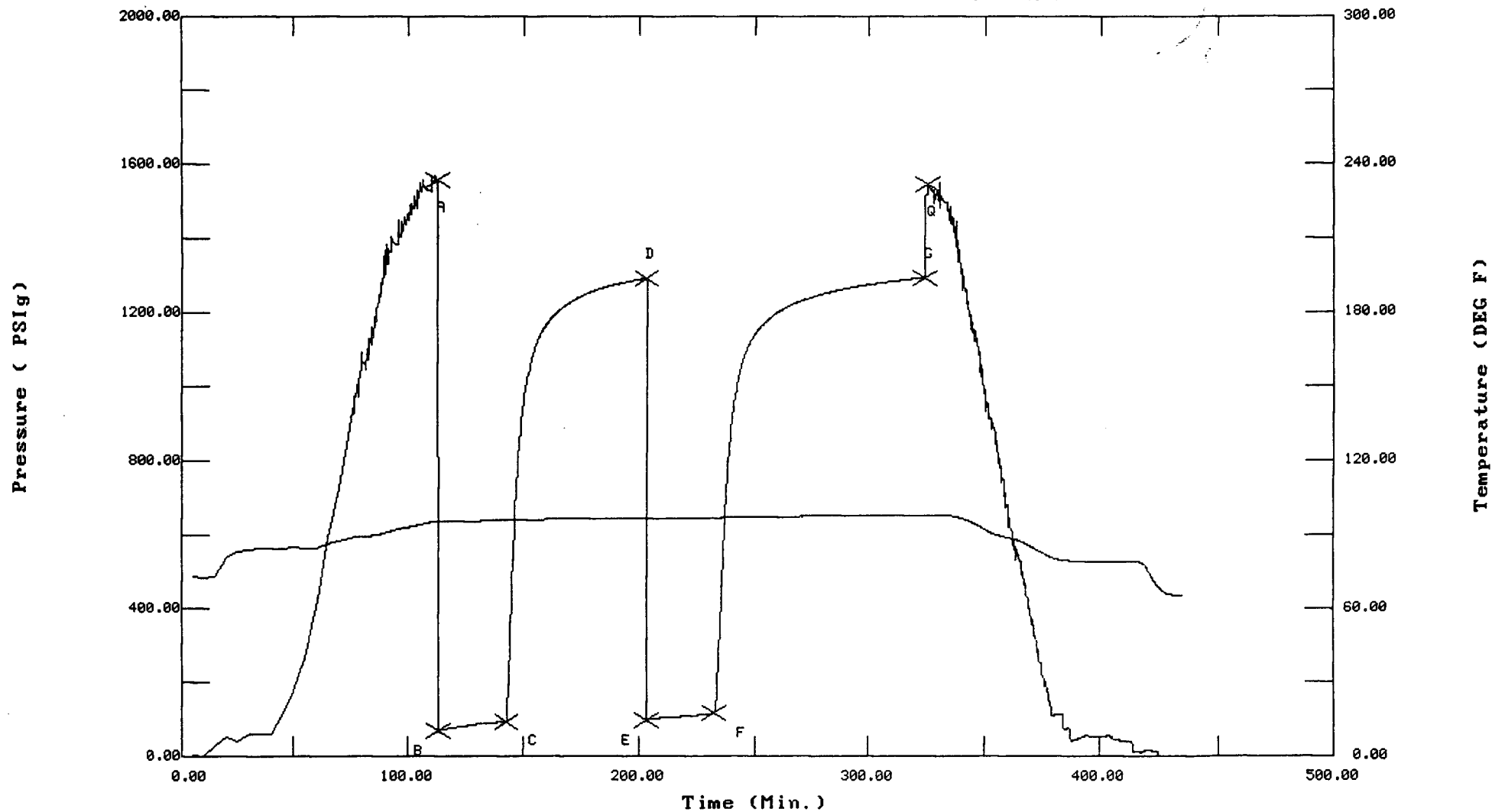


CHART PAGE



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

01	00:00	00:00:00
02	00:00	00:00:00
03	00:00	00:00:00
04	00:00	00:00:00
05	00:00	00:00:00
06	00:00	00:00:00
07	00:00	00:00:00
08	00:00	00:00:00
09	00:00	00:00:00
10	00:00	00:00:00

1221 H120M

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10793

Well Name & No. <u>Z-Bar Cattle Co. #6</u>	Test No. _____	Date <u>06/07/98</u>
Company <u>Woolsey Pet. Corp.</u>	Zone Tested <u>Webbamer</u>	
Address <u>125 N. Market Suite 1000, Wichita, KS 67202</u>	Elevation <u>1680</u>	KB <u>1669</u> GL
Co. Rep / Geo. <u>Mike Maune</u>	Cont. <u>Duke #5</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>30</u>	Twp. <u>34S</u>	Rge. <u>14W</u> Co. <u>Barber</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>—</u>	Turnkey (Y, N) <u>—</u> Evaluation (Y, N) <u>—</u>

Interval Tested <u>3154' - 3250'</u>	Initial Str Wt./Lbs. <u>42000</u>	Unseated Str Wt./Lbs. _____
Anchor Length <u>96'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. _____
Top Packer Depth <u>3149'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>3154'</u>	Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth <u>3250'</u>	Wt. Pipe Run _____	Drill Collar Run <u>121'</u>
Mud Wt. <u>8.9</u> LCM <u>—</u> Vis. <u>42</u> WL <u>9.8</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3087'</u>

Blow Description IF! Weak blow. Built to 1/2" slowly died off to weak surface.
IST! No blow back.
FF! Weak surface blow built to 1/4". Died in 20 mins.
FSI No blow back.

Recovery — Total Feet <u>80</u>	GIP _____	Ft. in DC <u>80'</u>	Ft. in DP _____
Rec. <u>20</u> Feet Of <u>Drilling Mud</u>	%gas _____	%oil _____	%water <u>100</u> %mud _____
Rec. <u>60'</u> Feet Of <u>WCM</u>	%gas _____	%oil _____	%water <u>20</u> %mud <u>80</u>
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT 98° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW 1.4 @ 70° °F Chlorides 17,000 ppm Recovery Chlorides 5,000 ppm System

(A) Initial Hydrostatic Mud <u>1555</u>	<u>1539</u> PSI	Recorder No. <u>2350</u>	T-Started <u>1823</u>
(B) First Initial Flow Pressure <u>68</u>	<u>101</u> PSI	(depth) <u>3229'</u>	T-Open <u>2018</u>
(C) First Final Flow Pressure <u>92</u>	<u>101</u> PSI	Recorder No. <u>10332</u>	T-Pulled <u>2348</u>
(D) Initial Shut-in Pressure <u>1293</u>	<u>1286</u> PSI	(depth) <u>3247</u>	T-Out <u>0145</u>
(E) Second Initial Flow Pressure <u>95</u>	<u>111</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>113</u>	<u>132</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>1293</u>	<u>1296</u> PSI	Initial Opening <u>30</u>	Test <u>1000</u> ☒
(H) Final Hydrostatic Mud <u>1543</u>	<u>1559</u> PSI	Initial Shut-in <u>60</u>	Jars <u>200</u> ☒
<u>ALPINE</u>	<u>AK-1</u>	Final Flow <u>30</u>	Safety Joint <u>50</u> ☒
		Final Shut-in <u>90</u>	Straddle _____
			Circ. Sub _____
			Sampler _____
			Extra Packer _____
			Elect. Rec. <u>150</u> ☒
			Other _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Michael K. Maune

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Pet, Corp.

DATE 06/10/98

WELL NAME: Z-Bar Cattle Co.#6

KB 1680.00 ft

TICKET NO: 10794

DST #2

LOCATION : 30-34s-14w

GR 1669.00 ft

FORMATION: Douglas

INTERVAL : 4077.00 To 4120.00 ft

TD 4120.00 ft

TEST TYPE: CONVETIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	2350			PF Fr. 0302 to 0332 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0332 to 0432 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0432 to 0532 hr
FS 120 Depth(ft)	4117.0	4117.0	4090.0	0.0	0.0	FS Fr. 0532 to 0732 hr

	Field	1	2	3	4	
A. Init Hydro	1987.0	1993.0	1993.0	0.0	0.0	T STARTED 0054 hr
B. First Flow	81.0	83.0	41.0	0.0	0.0	T ON BOTM 0300 hr
Bl. Final Flow	101.0	114.0	110.0	0.0	0.0	T OPEN 0302 hr
C. In Shut-in	1559.0	1568.0	1573.0	0.0	0.0	T PULLED 0732 hr
D. Init Flow	142.0	156.0	114.0	0.0	0.0	T OUT 1030 hr
E. Final Flow	213.0	226.0	219.0	0.0	0.0	
F. Fl Shut-in	1580.0	1593.0	1565.0	0.0	0.0	
G. Final Hydro	2008.0	2016.0	1971.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 400.00 ft of 0.00 ft in DC and 400.00 ft in DP

90.00 ft of drilling mud

120.00 ft of Water cut mud 30%water & 70%mud

60.00 ft of Watery mud 60% water 40% mud trace of gas

60.00 ft of Mud cut water 90% water & 10%mud

70.00 ft of Muddy water 50%water & 50%mud

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 68000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak blow built to 8" in water bucket

Initial Shut-in:

Bled down for 10 mins.No blow back.

Final Flow:

Weak blow built to 3 1/2" in water

Final Shut-in:

Bled down for 10 mins. no blow back

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	44.00 S/L
W.L.	9.40 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	115.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Mikeal K.Maune
Contr.	Duke
Rig #	5
Unit #	none
Pump T.	no

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Z-Bar Cattle Co.#6
 LOCATION : 30-34s-14w
 TICKET No. 10794 D.S.T. No. 2 DATE 06/10/98
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 28
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 43
 TOTAL TOOL 71
 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 Single Total
 D.P. ABOVE TOOLS.Stands66 Single 1 Total 4072
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4143
 TOTAL DEPTH 4120
 TOTAL DRILL PIPE ABOVE K.B. 22
 REMARKS:

P.O. SUB	
C.O. SUB top of tool @	4051
S.I. TOOL	4056
HMV	4061
JARS	4066
SAFETY JOINT	4068
PACKER	4072
PACKER	4077
DEPTH 4077	
STUBB 1'to	4078
ANCHOR 6'of perfs to	4084
alpine rec.@4090	
31'of perfs.to	4115
	4115
T.C.	
DEPTH	
	4115
	4115
ak-1 rec.@ 4117	
BULLNOSE 5'bullnose to	4120
T.D.	

TEST HISTORY

Tk#10794 DST#2 Z-Bar Cattle Co.#6 Woolsey Petroleum Corp.

Flag Points
t(Min.) P(PSig)

A: 0.00 1993.36
B: 0.00 40.53
C: 30.50 110.27
D: 59.75 1572.80
E: 0.00 113.88
F: 59.75 219.13
G: 120.25 1564.66
Q: 0.00 1971.29

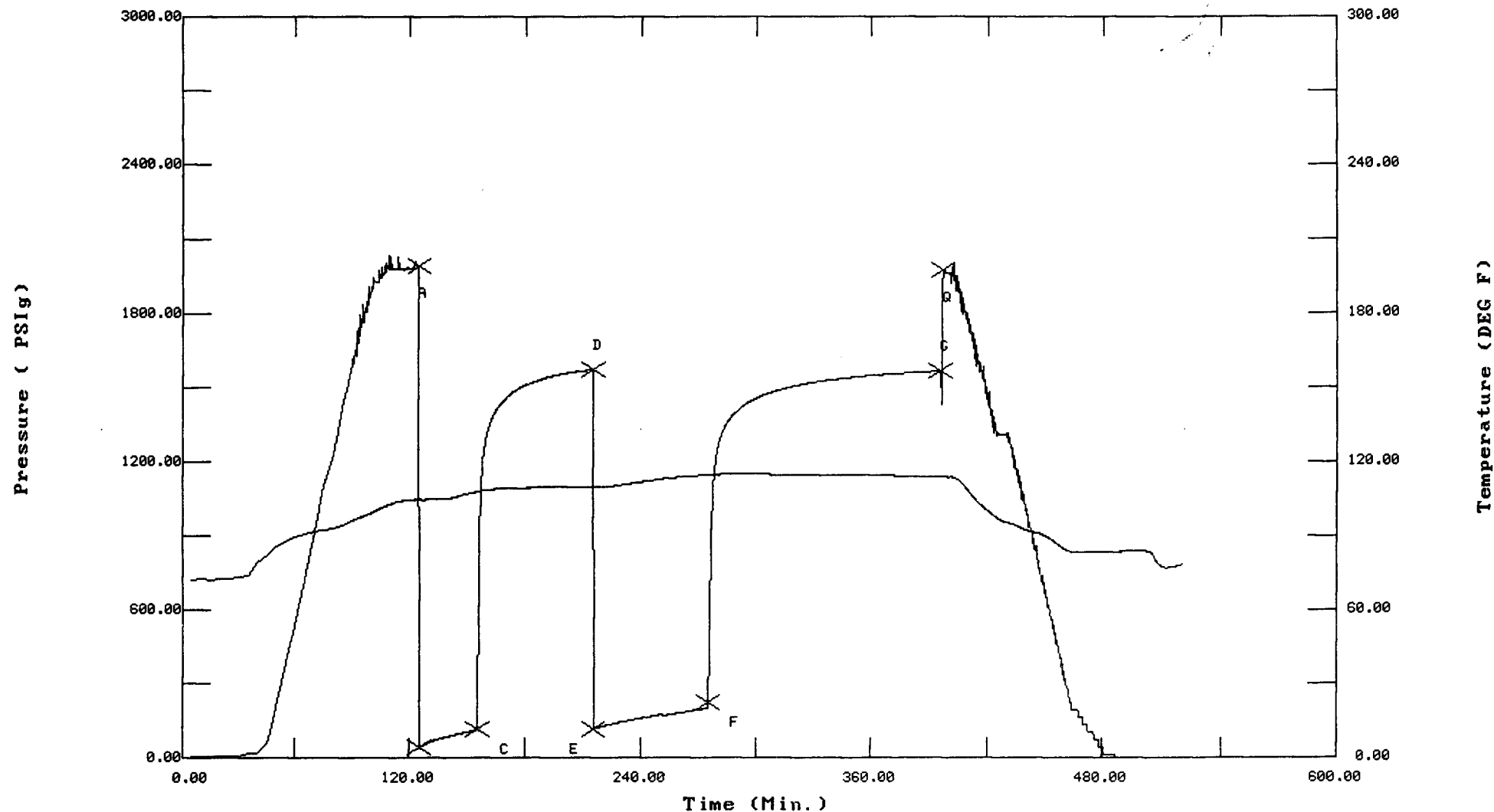
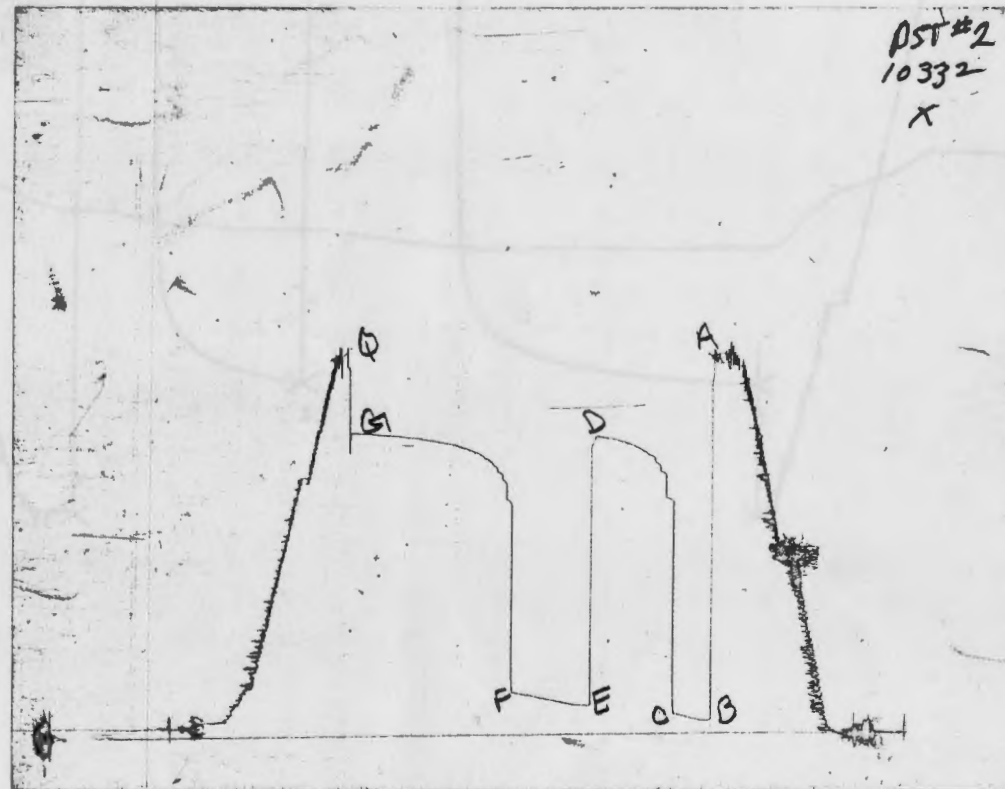


CHART PAGE



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10794

Well Name & No. Z-Bar Cattle Co. #6 Test No. #2 Date 06/10/98
 Company Woolsey Pet. Corp. Zone Tested Simpson Auth
 Address 125 N. Market, Suite 1000 Wichita, KS Elevation 1680 KB 1669 GL
 Co. Rep / Geo. Michael K. Maune Cont. Duke #7 Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 30 Twp. 34S Rge. 14W Co. Barber State KS
 No. of Copies 5 Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 4077 - 4120 Initial Str Wt./Lbs. 42000 Unseated Str Wt./Lbs. 43000
 Anchor Length 43' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 45000
 Top Packer Depth 4072' Tool Weight 2100
 Bottom Packer Depth 4077' Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒
 Total Depth 4120 Wt. Pipe Run _____ Drill Collar Run N/A
 Mud Wt. 9.2 LCM 0 Vis. 44 WL 9.4 Drill Pipe Size 4 1/2 XH Ft. Run 4072

Blow Description IF: Weak blow built to 8 in in H2O bucket.
IST: Bled down for 10 mins. No hb.
FF: Weak blow built to 3 1/2" in H2O bucket.
FST: Bled down for 10 min

Recovery — Total Feet	GIP <u>Trace</u>	Ft. in DC	Ft. in DP
Rec. <u>90'</u> Feet Of <u>Drilling Mud</u>	%gas	%oil	%water <u>100</u> %mud
Rec. <u>120'</u> Feet Of <u>WCM</u>	%gas	%oil <u>30</u>	%water <u>70</u> %mud
Rec. <u>60'</u> Feet Of <u>WM</u>	%gas	%oil <u>60</u>	%water <u>40</u> %mud
Rec. <u>60'</u> Feet Of <u>MCW</u>	%gas	%oil <u>90</u>	%water <u>10</u> %mud
Rec. <u>70'</u> Feet Of <u>MW</u>	%gas	%oil <u>50</u>	%water <u>30</u> %mud

BHT 115° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW .10 @ 81° °F Chlorides 68,000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud	<u>1993</u>	<u>1987</u> PSI	Recorder No. <u>2350</u>	T-Started <u>0054</u>
(B) First Initial Flow Pressure	<u>41</u>	<u>81</u> PSI	(depth) <u>4090</u>	T-Open <u>0302</u>
(C) First Final Flow Pressure	<u>110</u>	<u>101</u> PSI	Recorder No. <u>10332</u>	T-Pulled <u>0732</u>
(D) Initial Shut-in Pressure	<u>1573</u>	<u>1559</u> PSI	(depth) <u>4117'</u>	T-Out <u>1030-0900</u>
(E) Second Initial Flow Pressure	<u>114</u>	<u>142</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure	<u>219</u>	<u>213</u> PSI	(depth) _____	
(G) Final Shut-in Pressure	<u>1565</u>	<u>1580</u> PSI	Initial Opening <u>30</u>	Test <u>700</u> ☒
(H) Final Hydrostatic Mud	<u>1971</u>	<u>2008</u> PSI	Initial Shut-in <u>60</u>	Jars <u>200</u> ☒
	<u>ALP:ne</u>	<u>AK-1</u>	Final Flow <u>60</u>	Safety Joint <u>50</u> ☒
			Final Shut-in <u>120</u>	Straddle _____
				Circ. Sub _____
				Sampler _____
				Extra Packer _____
				Elect. Rec. <u>150</u> ☒
				Other <u>8N5-lem</u>

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Approved By Michael K. Maune

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petroleum Corp
WELL NAME: Z-Bar Cattle Co.#6
LOCATION : 30-34s-14w Barber KS
INTERVAL : 4645.00 To 4679.00 ft

DATE 06/12/98
KB 1680.00 ft TICKET NO: 10795 DST #3
GR 1669.00 ft FORMATION: Swope
TD 4679.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	2350			PF Fr. 0743 to 0813 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0813 to 0913 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0913 to 0943 hr
FS 180 Depth(ft)	4676.0	4676.0	4653.0	0.0	0.0	FS Fr. 0943 to 1243 hr

	Field	1	2	3	4	
A. Init Hydro	2258.0	2292.0	2272.0	0.0	0.0	T STARTED 0550 hr
B. First Flow	91.0	97.0	71.0	0.0	0.0	T ON BOTM 0740 hr
B1. Final Flow	132.0	126.0	125.0	0.0	0.0	T OPEN 0743 hr
C. In Shut-in	1743.0	1738.0	1743.0	0.0	0.0	T PULLED 1243 hr
D. Init Flow	172.0	174.0	135.0	0.0	0.0	T OUT 1430 hr
E. Final Flow	213.0	214.0	210.0	0.0	0.0	
F. Fl Shut-in	1763.0	1777.0	1786.0	0.0	0.0	
G. Final Hydro	2228.0	2222.0	2230.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 422.00 ft of 0.00 ft in DC and 422.00 ft in DP
50.00 ft of Very slight oil specked mud
0.00 ft of 1% oil 99% mud
120.00 ft of Slight water and gas cut mud trace of oil
0.00 ft of 10% gas 4% water 86% mud
230.00 ft of Mud and gas cut water trace of oil
0.00 ft of 5% gas 1% oil 74% water 20% mud
22.00 ft of Mud and gas cut water
0.00 ft of 2% gas 68% water 30% mud
SALINITY 73000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----
Tool Wt. 2100.00 lbs
Wt Set On Packer 20000.00 lbs
Wt Pulled Loose 54000.00 lbs
Initial Str Wt 47000.00 lbs
Unseated Str Wt 51000.00 lbs
Bot Choke 0.75 in
Hole Size 7.88 in
D Col. ID 2.25 in
D. Pipe ID 3.80 in
D.C. Length 0.00 ft
D.P. Length 4631.00 ft

BLOW DESCRIPTION

Initial Flow:
Strong blow bottom of bucket in
30 secs. gas to surface in 30 mins.
Initial Shut-in:
Bled down for 20 mins.No blowback
Final Flow:
Fair blow gauge gas
Final Shut-in:
Bled down for 20 mins. weak surface
blow 1/4" in bucket

MUD DATA-----
Mud Type Chemical
Weight 9.10 lb/c
Vis. 46.00 S/L
W.L. 8.80 in3
F.C. 0.32 in
Mud Drop N

Amt. of fill 0.00 ft
Btm. H. Temp. 125.00 F
Hole Condition good
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00 n
Cushion Type none
Reversed Out N
Toql Chased N
Tester Darren Amerine
Co. Rep. Mikeal K.Maune
Contr. Duke
Rig # 5
Unit # none
Pump T. no

SAMPLES: Caraway
SENT TO: Liberal, Ks. 67901

Test Successful: Y

GAS RECOVERY

COMPANY: Woolsey Pet, Corp.

DATE: 06/13/98

WELL NAME: Z-Bar Cattle, Co. #6

KB Elev: 1689.00 ft TICKET #10796 DST #4

WELL LOCATION: Sec.30 Twp.34s Rge.14w

GR Elev: 1669.00 ft FORMATION: (upper)Miss.

INTERVAL Fr.: 4845.00 To 4910.00 T.D.: 4910.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.25	0	14	6330.0
10	0.25	0	20	7510.0
15	0.25	0	10	5320.0
20	0.25	0	4	3370.0
25	0.12	0	8	1500.0
30	0.12	0	8	1500.0
35	0.12	0	10	1670.0
40	0.12	0	10	1670.0
45	0.12	0	10	1670.0
50	0.12	0	10	1670.0
55	0.12	0	10	1670.0
60	0.12	0	10	1670.0

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number:	982262	Analyzed:	06/16/98
Sample From:	2-Bar Cattle Co. #6 DST 3	Pressure:	
Producer:	Woolsey Petroleum	Temperature:	
Date:		Location:	30-34-14
Time:		County:	Barber
Sampler:		State:	Kansas
Source:		Formation:	Swope

	Mole %	GPM
Helium	He: 0.125	0.000
Hydrogen	H2: 0.159	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 6.481	0.000
Carbon Dioxide	CO2: 0.245	0.000
Methane	C1: 77.775	0.000
Ethane	C2: 6.511	1.741
Propane	C3: 4.309	1.187
Iso Butane	iC4: 0.518	0.169
Normal Butane	nC4: 1.485	0.468
Iso Pentane	iC5: 0.383	0.140
Normal Pentane	nC5: 0.486	0.176
Hexanes Plus	C6+: 1.523	0.664

TOTAL: 100.000 4.547
Z Fact: 0.9968
SP.GR.: 0.7443
BTU (SAT): 1173.7 @ 14.73 psia
BTU (DRY): 1194.5 @ 14.73 psia
OCTANE RATING: 114.7

COMMENTS:

0.000

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Z-Bar Cattle, Co. #6

LOCATION : Sec. 30 Twp. 34s Rge. 14w

TICKET No. 10796 D.S.T. No. 4 DATE 06/13/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 34

TOTAL TOOL 62

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND. Stands Single Total

D.P. ANCHOR STND. Stands Single 1 Total 31

TOTAL ASSEMBLY 93

D.C. ABOVE TOOLS. Stands Single Total

D.P. ABOVE TOOLS. Stands 78 Single Total 4847

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4940

TOTAL DEPTH 4910

TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS:

Mud system had 5#LCM

Gas sample taken at 10 min. in final flow.

P.O. SUB

C.O. SUB Top of tool @ 4819

S.I. TOOL 4824

HMV 4829

JARS 4834

SAFETY JOINT 4836

PACKER 4840

PACKER 4845

DEPTH 4845

STUBB 1' stubb to 4846

ANCHOR 6' of perfs to 4852

31' drill pipe 4883

alpine rec. @ 4889

4883

4883

T.C.

DEPTH

25' of perfs. to 4908

4908

4908

ak-1 rec. @ 4907

BULLNOSE 2' bullnose to 4910

T.D.

TEST HISTORY

Tk#10796 DST#4 Z-Bar cattle co.#6 Woolsey Pet,Corp.

Flag Points
t(Min.) P(PSig)

A:	0.00	2414.68
B:	0.00	33.65
C:	28.75	41.87
D:	60.00	547.20
E:	0.00	37.26
F:	57.75	37.59
G:	245.50	547.87
Q:	0.00	2430.29

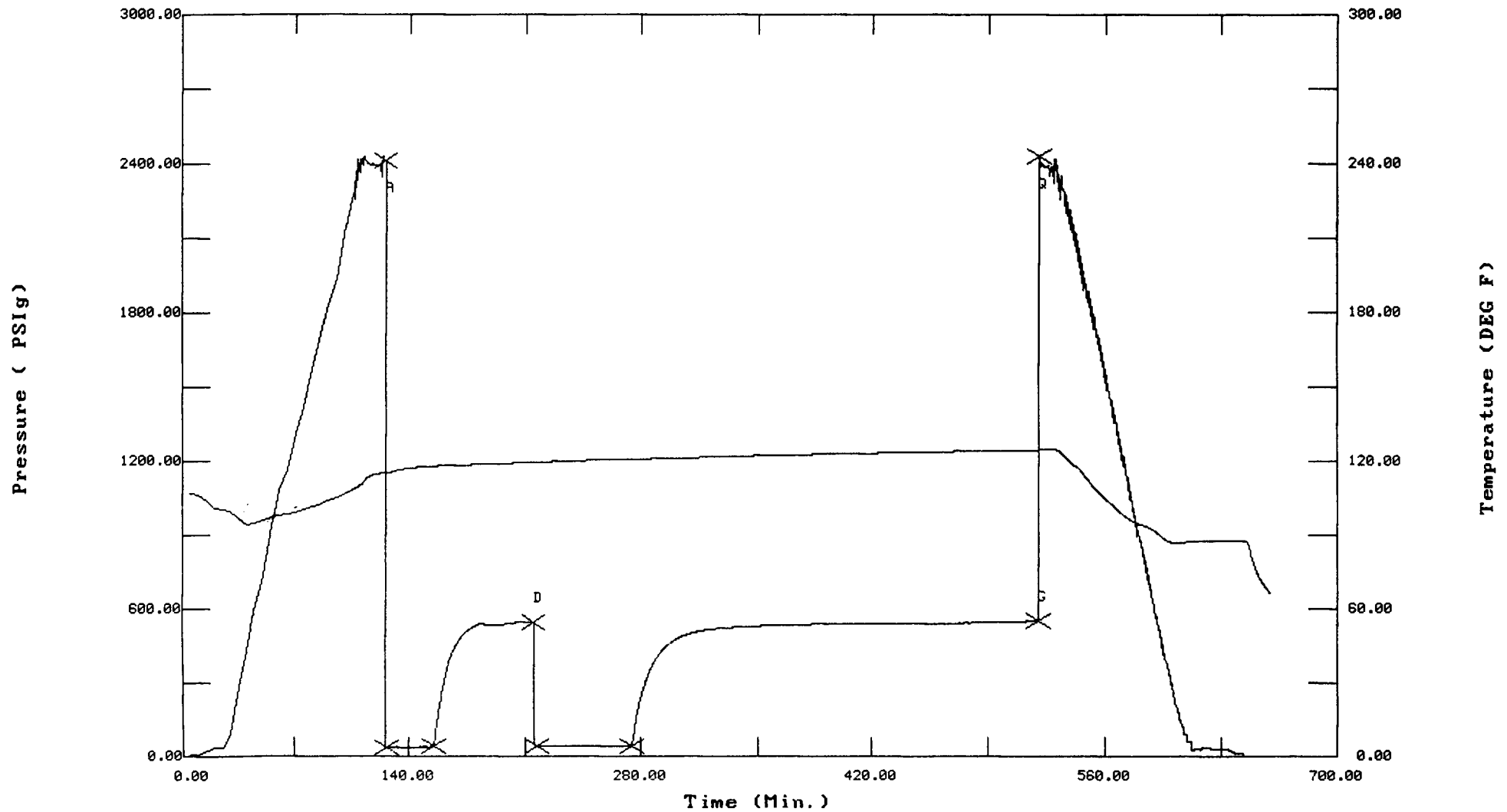
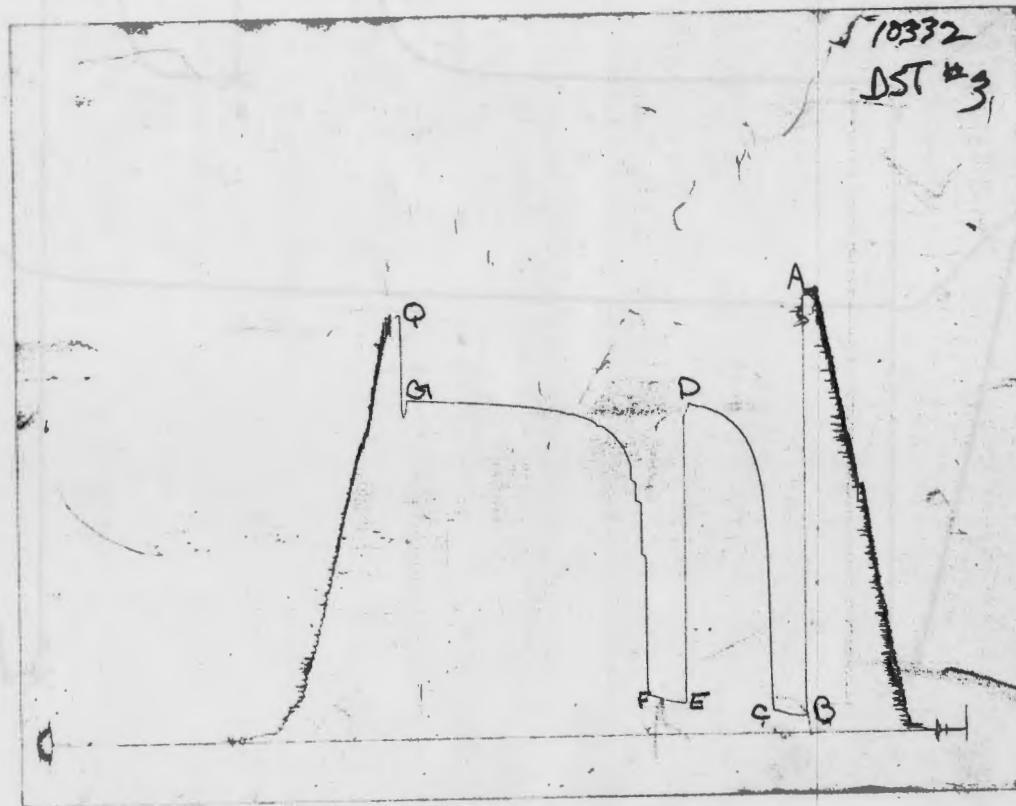


CHART PAGE



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



GAS VOLUME REPORT

Woolsey Pet. Corp.
OPERATOR

Z-Bar Cattle Co. #6
WELL NAME AND NO.

3
DST NO

Remarks:

Michael K. Malone

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10795

Well Name & No.	Z-Bar Cattle Co #6		Test No.	#3	Date	06/12/98
Company	Woolsey Pet		Zone Tested	Surge Surge		
Address	125 N. Market, Suite 1000 Wichita, KS 67202		Elevation	1680	KB	66.9 GL
Co. Rep / Geo.	Michael K. Maurer Cont.		Dut	#5	Est. Ft. of Pay	Por. %
Location: Sec.	30	Twp.	34 S	Rge.	14 W	Co. Barber State KS
No. of Copies	5	Distribution Sheet (Y, N)		Turnkey (Y, N)		Evaluation (Y, N)

Interval Tested 4645' - 4679' Initial Str Wt./Lbs. 42000 Unseated Str Wt./Lbs. 51000
 Anchor Length 34' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 54000
 Top Packer Depth 4640' Tool Weight 2100
 Bottom Packer Depth 4645' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 4679' Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.1 LCM 0 Vis. 46 WL 9.8 Drill Pipe Size 4 1/2 x 11 Ft. Run 4631
 Blow Description TF Strong blow B.O.B in 30 sec. GTS in 13 mins
TSI Bled down for 20 mins. No B.B.
FF Fair blow. Gauge Gas
FSI Bled down for 20 mins. Check surface blow back 1/4" in Duckit.

Recovery — Total Feet 422' GIP 4209' Ft. in DC _____ Ft. in DP 422'
 Rec. 50' Feet Of USOCM Tace oil %gas 1 %oil _____ %water 99 %mud _____
 Rec. 120' Feet Of SWE6CM Tace oil 10 %gas _____ %oil 4 %water 86 %mud _____
 Rec. 230' Feet Of MF6CW Tace oil 5 %gas 1 %oil 74 %water 20 %mud _____
 Rec. 22 Feet Of MF6CW 2 %gas _____ %oil 68 %water 30 %mud _____
 Rec. _____ Feet Of _____ %gas _____ %oil _____ %water _____ %mud _____

BHT 125 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW .07 @ 106° °F Chlorides 73,000 ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud	<u>2258</u>	<u>2272</u>	PSI	Recorder No.	<u>2350</u>	T-Started	<u>05:50</u>
(B) First Initial Flow Pressure	<u>91</u>	<u>71</u>	PSI	(depth)	<u>4653'</u>	T-Open	<u>07:43</u>
(C) First Final Flow Pressure	<u>132</u>	<u>125</u>	PSI	Recorder No.	<u>10332</u>	T-Pulled	<u>12:43</u>
(D) Initial Shut-in Pressure	<u>1743</u>	<u>1740</u>	PSI	(depth)	<u>4676'</u>	T-Out	<u>14:30</u>
(E) Second Initial Flow Pressure	<u>172</u>	<u>135</u>	PSI	Recorder No.			
(F) Second Final Flow Pressure	<u>213</u>	<u>210</u>	PSI	(depth)			
(G) Final Shut-in Pressure	<u>1763</u>	<u>1786</u>	PSI	Initial Opening	<u>30</u>	Test	<u>700</u> ✓
(H) Final Hydrostatic Mud	<u>2228</u>	<u>2230</u>	PSI	Initial Shut-in	<u>60</u>	Jars	<u>200</u> ✓
	<u>AK-1</u>	<u>ALP-XC</u>		Final Flow	<u>30</u>	Safety Joint	<u>50</u> ✓
				Final Shut-in	<u>180</u>	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elect. Rec.	<u>150</u> ✓
						Other	<u>8 hrs 40 min</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Michael K. Maurer

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Pet, Corp.

DATE 06/13/98

WELL NAME: Z-Bar Cattle, Co. #6

KB 1689.00 ft

TICKET NO: 10796

DST #4

LOCATION : 30-34s-14w Barber KS

GR 1669.00 ft

FORMATION: (upper)Mississippi

INTERVAL : 4845.00 To 4910.00 ft

TD 4910.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	2350			PF Fr. 2006 to 2036 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 2036 to 2136 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 2136 to 2236 hr
FS 240 Depth(ft)	4907.0	4907.0	4889.0	0.0	0.0	FS Fr. 2236 to 0236 hr

	Field	1	2	3	4	
A. Init Hydro	2428.0	2436.0	2415.0	0.0	0.0	T STARTED 1800 hr
B. First Flow	71.0	75.0	34.0	0.0	0.0	T ON BOTM 2003 hr
B1. Final Flow	71.0	75.0	42.0	0.0	0.0	T OPEN 2006 hr
C. In Shut-in	557.0	571.0	547.0	0.0	0.0	T PULLED 0236 hr
D. Init Flow	91.0	103.0	37.0	0.0	0.0	T OUT 0530 hr
E. Final Flow	91.0	100.0	38.0	0.0	0.0	
F. Fl Shut-in	577.0	587.0	577.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2438.0	2436.0	2438.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 52000.00 lbs
						Initial Str Wt 47000.00 lbs
						Unseated Str Wt 47000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 4847.00 ft

RECOVERY

Tot Fluid 40.00 ft of 0.00 ft in DC and 40.00 ft in DP
 4807.00 ft of Gas in pipe
 40.00 ft of Very slight gas cut mud 4% gas 96% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Intiail Flow:
 Strong blow borrom of bucket in
 2 1/2 Mins.
 Initial Shut-in:
 Bled down for 10 mins. bottom of
 bucket in 5 minutes.
 Final Flow:
 Strong blow, bottom of bucket in 30
 seconds gauging gas---see report
 Final Shut-in:
 Bled down for 10 mins. bottom of
 bucket in 4 mins.

SAMPLES: Caraway Analytical 728 N.Roosevelt
 SENT TO: Liberal, Ks. 67901

Test Successful: Y

MUD DATA-----
 Mud Type Chemical
 Weight 9.40 lb/c:
 Vis. 45.00 S/L
 W.L. 6.80 in3
 F.C. 0.32 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 125.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Toql Chased N
 Tester Darren Amerine
 Co. Rep. Mikeal K. Maune
 Contr. Duke
 Rig # 5
 Unit # none
 Pump T. none

GAS RECOVERY

COMPANY: Woolsey Petroleum Corp

DATE: 06/12/98

WELL NAME: Z-Bar Cattle Co.#6

KB Elev: 1680.00 ft TICKET #10795

DST #3

WELL LOCATION: Sec.30

GR Elev: 1669.00 ft FORMATION: Swope

INTERVAL Fr.: 4645.00 To 4679.00 T.D.: 4679.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj.choke

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.25	0	8	4760.0
10	0.25	0	8	4760.0
15	0.25	0	6	4120.0

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.25	0	2	2370.0
10	0.25	0	6	4120.0
15	0.25	0	4	3370.0
20	0.12	0	4	1080.0
25	0.12	0	2	747.0
30	0.12	0	2	747.0

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 982263
Sample From: 2-Bar Cattle Co. #6 DST 4
Producer: Woolsey Petroleum
Date:
Time:
Sampler:
Source:

Analyzed: 06/16/98
Pressure:
Temperature:
Location: 30-34-14
County: Barber
State: Kansas
Formation: Miss

	Mole %	GPM
Helium	He: 0.090	0.000
Hydrogen	H2: 0.012	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.683	0.000
Carbon Dioxide	CO2: 0.521	0.000
Methane	C1: 85.923	0.000
Ethane	C2: 6.545	1.750
Propane	C3: 2.459	0.678
Iso Butane	iC4: 0.308	0.101
Normal Butane	nC4: 0.707	0.223
Iso Pentane	iC5: 0.151	0.055
Normal Pentane	nC5: 0.186	0.067
Hexanes Plus	C6+: 0.415	0.181

TOTAL: 100.000 3.055
Z Fact: 0.9974
SP.GR.: 0.6595
BTU (SAT): 1099.4 @ 14.73 psia
BTU (DRY): 1118.9 @ 14.73 psia
OCTANE RATING: 122.1

COMMENTS:

0.000

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Z-Bar Cattle Co.#6

LOCATION : Sec.30

TICKET No. 10795 D.S.T. No. 3 DATE 06/12/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 34

TOTAL TOOL 61

DRILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

C. ABOVE TOOLS.Stands Single Total

P. ABOVE TOOLS.Stands75 Single 1 Total 4631

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4692

TOTAL DEPTH 4679

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

P.O. SUB

C.O. SUB

4619

S.I. TOOL Sterling

4624

HMV Sterling

4629

JARS Sterling

4634

SAFETY JOINT Bowen

4636

PACKER Top

4640

PACKER Bottom

4645

DEPTH

STUBB 1'stubb to

4646

ANCHOR 5'perfs.to

4651

Alpine rec.4653

4651

4651

T.C.

DEPTH

26'of perfs.to

4677

4677

4677

ak-1 rec.4676

BULLNOSE 2'bullnose to

4679

T.D.

TEST HISTORY

Tk#10795 DST#3 Z-Bar Cattle Co.#6 Woolsey Pet Corp

Flag Points

t<Min.> P<PSIg>

A:	0.00	2272.00
B:	0.00	71.33
C:	29.50	124.54
D:	60.00	1743.42
E:	0.00	134.61
F:	29.75	209.73
G:	179.75	1785.64
Q:	0.00	2229.70

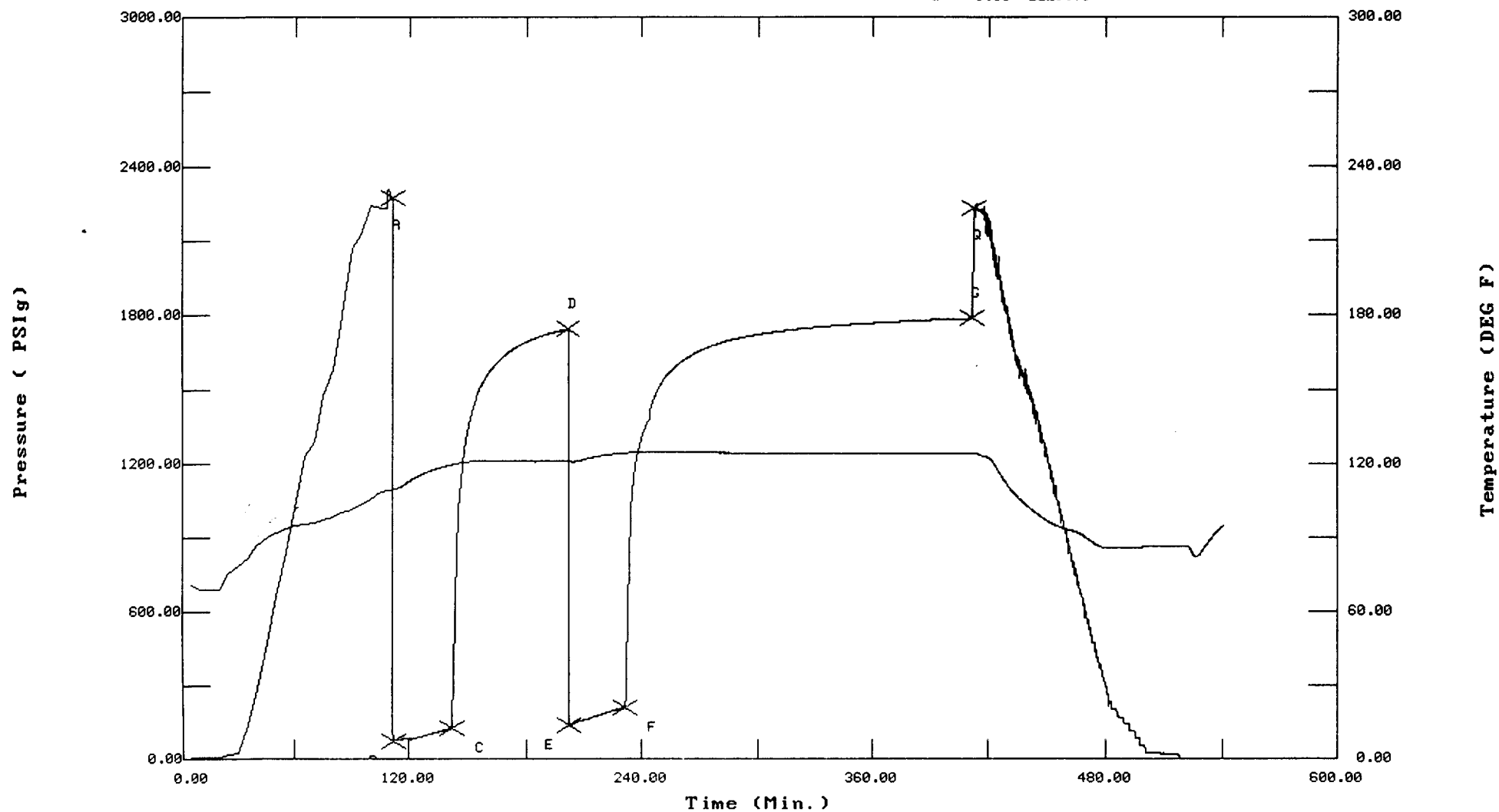
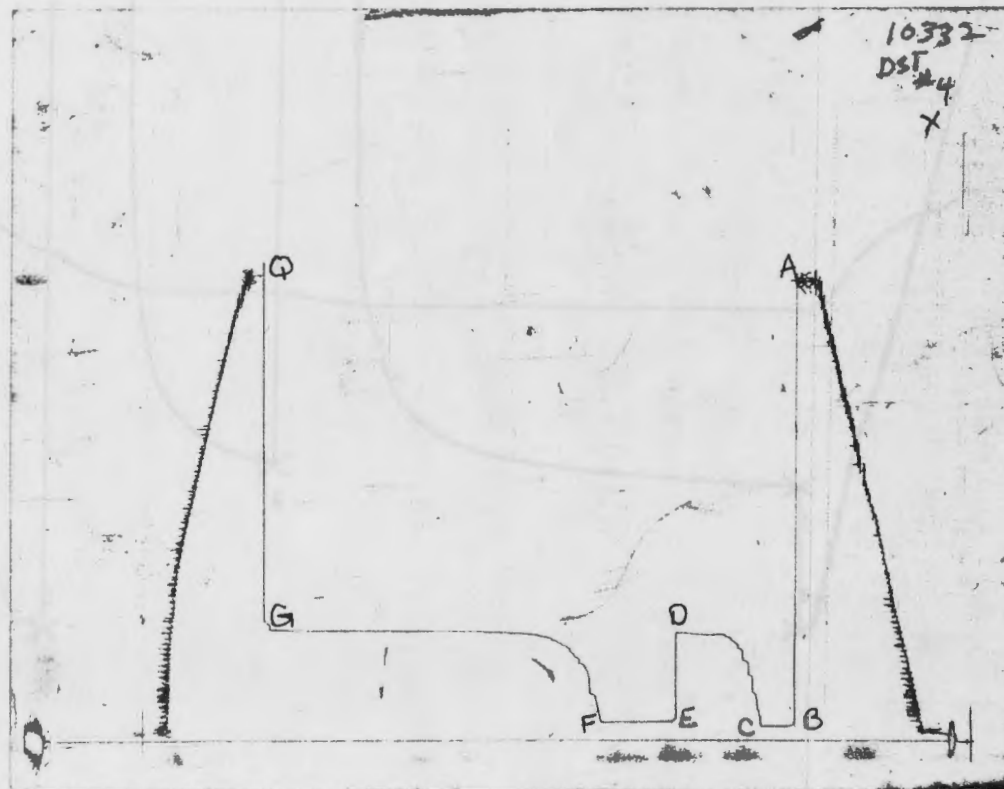


CHART PAGE



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

TEST HISTOBY



GAS VOLUME REPORT

Z-Bar Cattle Co. #6
WELL NAME AND NO.

4
OST NO.

Miss Formation

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10796

Well Name & No. <u>Z-Bar Cattle, Co. #6</u>	Test No. <u>#4</u>	Date <u>06/14/98</u>
Company <u>Woolsey Pet, Corp.</u>	Zone Tested <u>(Upper) Miss.</u>	
Address <u>125 N. Market, Suite 1000 Wichita, KS 67202</u>	Elevation <u>1680</u>	KB <u>1669</u> GL
Co. Rep / Geo. <u>Michael K. Maune</u>	Cont. <u>Duke #5</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>30</u>	Twp. <u>34S</u>	Rge. <u>14W</u> Co. <u>Barber</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>4845' - 4910'</u>	Initial Str Wt./Lbs. <u>4700</u>	Unseated Str Wt./Lbs. <u>4700</u>
Anchor Length <u>65'</u>	Wt. Set Lbs. <u>2000</u>	Wt. Pulled Loose/Lbs. <u>5200</u>
Top Packer Depth <u>4840'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4845'</u>	Hole Size — <u>7 7/8"</u> ☒ Rubber Size — <u>6 3/4"</u> ☒	
Total Depth <u>4910'</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u> </u>
Mud Wt. <u>9.4</u> LCM <u>5#</u> Vis. <u>45</u> WL <u>6.8</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4847</u>
Blow Description <u>IF: Strong blow. B.O.B. in 2 1/2 mins.</u>		
<u>ISI: Bled down for 10 mins. Back to bottom in 5 mins.</u>		
<u>FF: Gas to surface in 30 sec. Gauge Bar</u>		
<u>FSL: Bled down for 10 mins. Back to bottom of bucket in 4 mins.</u>		
Recovery — Total Feet <u>40'</u>	GIP <u>4807'</u>	Ft. in DC <u> </u> Ft. in DP <u>40'</u>
Rec. <u>40</u> Feet Of <u>USGCM</u>	4 %gas	%oil %water 96 %mud
Rec. <u>4807'</u> Feet Of <u>GIP</u>	%gas	%oil %water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil %water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil %water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil %water %mud
BHT <u>125°</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u> °API <u> </u>
RW <u> </u> @ <u> </u> °F Chlorides <u> </u>	ppm Recovery <u> </u>	Chlorides <u>4000</u> ppm System <u> </u>
(A) Initial Hydrostatic Mud <u>2415</u>	<u>2428</u> PSI Recorder No. <u>2350</u>	T-Started <u>1800</u>
(B) First Initial Flow Pressure <u>34</u>	<u>71</u> PSI (depth) <u>4889'</u>	T-Open <u>2006</u>
(C) First Final Flow Pressure <u>42</u>	<u>71</u> PSI Recorder No. <u>10332</u>	T-Pulled <u>0236</u>
(D) Initial Shut-in Pressure <u>547</u>	<u>557</u> PSI (depth) <u>4907'</u>	T-Out <u>0530</u> 0430
(E) Second Initial Flow Pressure <u>37</u>	<u>91</u> PSI Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>38</u>	<u>91</u> PSI (depth) <u> </u>	
(G) Final Shut-in Pressure <u>548</u>	<u>577</u> PSI Initial Opening <u>30</u>	Test <u>700</u> ☒
(H) Final Hydrostatic Mud <u>2430</u>	<u>2438</u> PSI Initial Shut-in <u>60</u>	Jars <u>200</u> ☒
<u>ALPINE</u>	<u>AA-1</u>	Safety Joint <u>50</u> ☒
	Final Flow <u>60</u>	Straddle <u> </u>
	Final Shut-in <u>240</u>	Circ. Sub <u> </u>
		Sampler <u> </u>
		Extra Packer <u> </u>
		Elect. Rec. <u>150</u> ☒

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Michael K. Maune

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey pet, Corp.

DATE 06/14/98

WELL NAME: Z-Bar cattle co.#6

KB 1680.00 ft

TICKET NO: 10797

DST #5

LOCATION : 30-34s-14w Barber KS

GR 1669.00 ft

FORMATION: (lower)Miss.

INTERVAL : 4912.00 To 4970.00 ft

TD 4970.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10332	10332	3030			PF Fr. 1943 to 2013 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 2013 to 2113 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 2113 to 2213 hr
FS 180 Depth(ft)	4967.0	4967.0	4955.0	0.0	0.0	FS Fr. 2213 to 0113 hr

	Field	1	2	3	4	
A. Init Hydro	2428.0	2434.0	2427.0	0.0	0.0	T STARTED 1730 hr
B. First Flow	20.0	37.0	37.0	0.0	0.0	T ON BOTM 1940 hr
B1. Final Flow	20.0	37.0	36.0	0.0	0.0	T OPEN 1943 hr
C. In Shut-in	30.0	43.0	43.0	0.0	0.0	T PULLED 0113 hr
D. Init Flow	30.0	44.0	35.0	0.0	0.0	T OUT 0300 hr
E. Final Flow	41.0	44.0	35.0	0.0	0.0	
F. Fl Shut-in	101.0	114.0	109.0	0.0	0.0	
G. Final Hydro	2418.0	2415.0	2387.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 15.00 ft of 0.00 ft in DC and 15.00 ft in DP
 15.00 ft of Very slight gas cut mud 1% gas 99% mud
 0.00 ft of Trace of gas in pipe
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak blow built to 2" in water bucket
 Initial Shut-in:
 Bled down for 5 mins. very slight blow back
 Final Flow:
 Weak blow built to 1 1/2" in water
 Final Shut-in:
 Bled down for 5 mins. blow back to 1/4"

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	51.00 S/L
W.L.	8.80 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	125.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Mikeal K.Maune
Contr.	Duke
Rig #	5
Unit #	none
Pump T.	no

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Z-Bar cattle co.#6
LOCATION : Sec.30 Twp.34s Rge.14w
TICKET No. 10797 D.S.T. No. 5 DATE 06/14/98
TOTAL TOOL TO BOTTOM OF TOP PACKERS 28
INTERVAL TOOL
BOTTOM PACKERS AND ANCHOR 27
TOTAL TOOL 55
DRILL COLLAR ANCHOR IN INTERVAL
D.C. ANCHOR STND.Stands Single Total
D.P. ANCHOR STND.Stands Single 1 Total 31
TOTAL ASSEMBLY 86'
D.C. ABOVE TOOLS.Stands Single Total
D.P. ABOVE TOOLS.Stands 79 Single Total 4912
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4998
TOTAL DEPTH 4970
TOTAL DRILL PIPE ABOVE K.B. 28
REMARKS:
Mud system had 6#LCM.

P.O. SUB	
C.O. SUB	4886
S.I. TOOL	4891
HMV	4896
JARS	4901
SAFETY JOINT	4903
PACKER	4907
PACKER	4912
DEPTH 4912	
STUBB 1'stubb to	4913
ANCHOR 6' of perfs.to	4919
31'jt.drillpipe to	4950
	4950
	4950
T.C.	
DEPTH	
	4950
18'of perfs to	4968
Ak-1 rec.@4967	
BULLNOSE 2'bullnose to	4970
T.D.	

TEST HISTORY

Tk#10797 DST#5 Z-Bar cattle co. Woolsey pet corp.

Flag Points
t(Min.) P(PSig)

A: 0.00 2427.00
B: 0.00 37.19
C: 20.00 36.57
D: 61.25 43.08
E: 0.00 35.97
F: 58.25 35.19
G: 185.00 109.27
Q: 0.00 2387.85

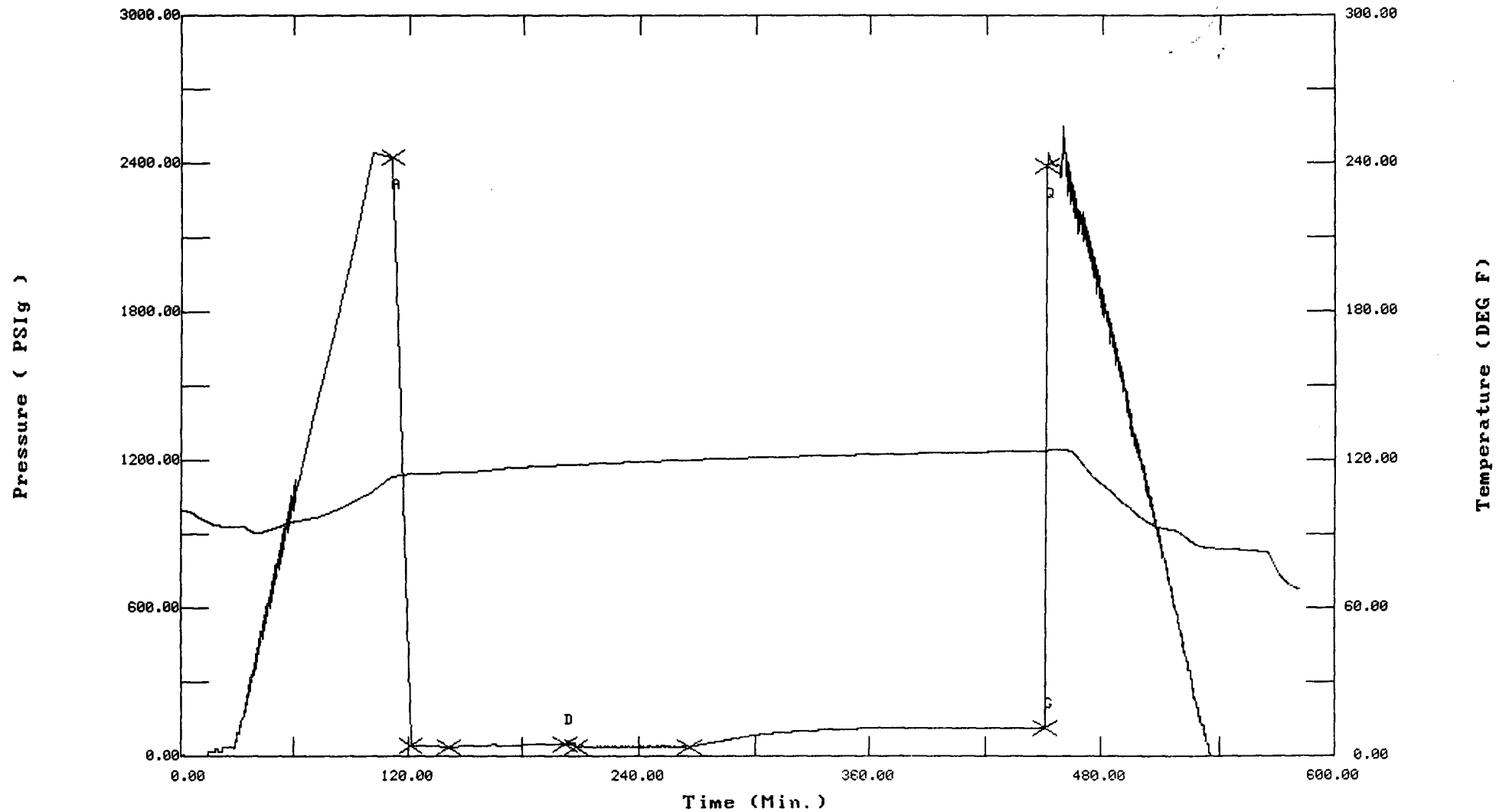
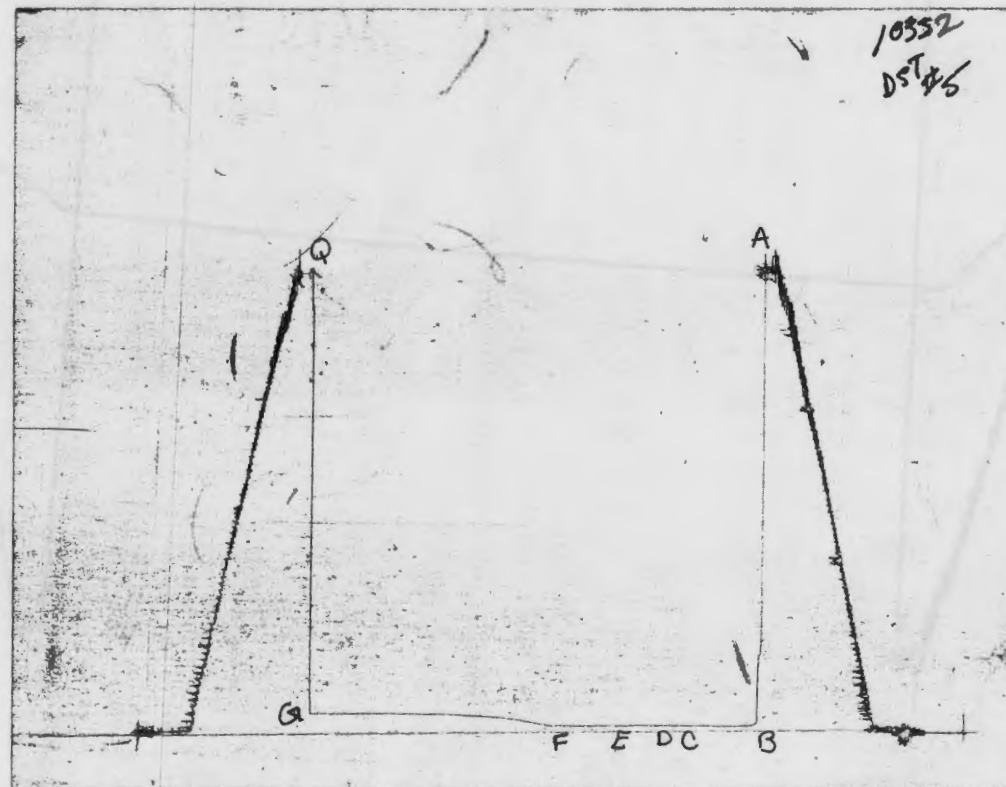


CHART PAGE



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

10552
DST 46

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10797

Well Name & No. <u>Z-Bar Cattle Co. #6</u>	Test No. <u>#5</u>	Date <u>06/14/98</u>
Company <u>Woolley Pet. Corp.</u>	Zone Tested <u>(Lower) Miss.</u>	
Address <u>125 N. Market Suite 1000 Wichita, KS 67202</u>	Elevation <u>1680</u>	KB <u>1669</u> GL
Co. Rep / Geo. <u>Michael K. Maune</u>	Cont. <u>Duke #5</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>30</u>	Twp. <u>34S</u>	Rge. <u>14W</u> Co. <u>Barber</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested <u>4912' - 4970'</u>	Initial Str Wt./Lbs. <u>49000</u>	Unseated Str Wt./Lbs. <u>49000</u>
Anchor Length <u>58'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>54,000</u>
Top Packer Depth <u>4907'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4912'</u>	Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>4970'</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>N/A</u>
Mud Wt. <u>9.2</u> LCM <u>6th</u> Vis. <u>51</u> WL <u>8.8</u>	Drill Pipe Size <u>4 1/2 X 4</u>	Ft. Run <u>4912'</u>

Blow Description IF: Weak blow built to 2" in H2O bucket
IST: Blad down for 5 mins. Very slight blow back
FF: Weak blow. Built to 1 1/2" in H2O bucket.
FST: Blad down for 5 mins. B.b to 1/4" in H2O bucket.

Recovery — Total Feet <u>15'</u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u>15'</u>
Rec. <u>15</u> Feet Of <u>156cm</u>	1	%gas <u> </u> %oil <u> </u> %water <u>99</u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u>Track of GIP</u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>		%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	

BHT °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides ppm System

(A) Initial Hydrostatic Mud <u>2427</u>	<u>2428</u>	PSI Recorder No. <u>3030</u>	T-Started <u>1730</u>
(B) First Initial Flow Pressure <u>37</u>	<u>20</u>	PSI (depth) <u>4955'</u>	T-Open <u>1943</u>
(C) First Final Flow Pressure <u>42</u>	<u>20</u>	PSI Recorder No. <u>10332</u>	T-Pulled <u>0113</u>
(D) Initial Shut-in Pressure <u>55</u>	<u>30</u>	PSI (depth) <u>4967'</u>	T-Out <u>0300</u>
(E) Second Initial Flow Pressure <u>36</u>	<u>30</u>	PSI Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>36</u>	<u>41</u>	PSI (depth) <u> </u>	
(G) Final Shut-in Pressure <u>109</u>	<u>101</u>	PSI Initial Opening <u>30</u>	Test <u>✓</u>
(H) Final Hydrostatic Mud <u>2386</u>	<u>2418</u>	PSI Initial Shut-in <u>60</u>	Jars <u>✓</u>
<u>ALPINE</u>	<u>AK-1</u>	Final Flow <u>60</u>	Safety Joint <u>✓</u>
		Final Shut-in <u>180</u>	Straddle <u> </u>
			Circ. Sub <u> </u>
			Sampler <u> </u>
			Extra Packer <u> </u>
			Elect. Rec. <u>✓</u>
			Other <u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Michael K. Maune

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petro. Corp.

DATE 6-16-98

WELL NAME: Z-Bar Cattle Co.#6

KB 1680.00 ft

TICKET NO: 10298

DST #6

LOCATION : 30-34s-14w Barber KS

GR 1669.00 ft

FORMATION: Viola

INTERVAL : 5310.00 To 5350.00 ft

TD 5350.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10270	10271	3027			PF Fr. 0020 to 0050 hr
SI 60 Range(Psi)	4150.0	4150.0	4995.0	0.0	0.0	IS Fr. 0050 to 0150 hr
SF 60 Clock(hrs)	12hr	12hr	elec			SF Fr. 0150 to 0250 hr
FS 240 Depth(ft)	5318.0	5318.0	5314.0	0.0	0.0	FS Fr. 0250 to 0650 hr

	Field	1	2	3	4	
A. Init Hydro	2536.0	2576.0	2563.0	0.0	0.0	T STARTED 2223 hr
B. First Flow	270.0	289.0	216.0	0.0	0.0	T ON BOTM 0017 hr
B1. Final Flow	218.0	221.0	166.0	0.0	0.0	T OPEN 0020 hr
C. In Shut-in	1952.0	1950.0	1982.0	0.0	0.0	T PULLED 0650 hr
D. Init Flow	239.0	232.0	177.0	0.0	0.0	T OUT 0950 hr
E. Final Flow	197.0	210.0	197.0	0.0	0.0	
F. Fl Shut-in	1931.0	1936.0	1942.0	0.0	0.0	
G. Final Hydro	2462.0	2450.0	2480.0	0.0	0.0	
Inside/Outside	o	o	i			

RECOVERY

Tot Fluid 485.00 ft of 0.00 ft in DC and 485.00 ft in DP
 425.00 ft of clean oil
 60.00 ft of gassy oil cut mud 40%gas 7%oil 53%mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 0.00 P.P.M. A.P.I. Gravity 40.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow gas surfaced in 5 mins.
 Final Flow:
 Gas of surface

MUD DATA-----

Mud Type chemical
 Weight 9.10 lb/c
 Vis. 50.00 S/L
 W.L. 6.80 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 0.00 ft
 Btm. H. Temp. 118.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased N
 Tester Ray Schwager
 Co. Rep. Mike Maune
 Contr. Duke Drlg.
 Rig # 5
 Unit #
 Pump T.

SAMPLES: gas sample
 SENT TO:

Test Successful: Y

GAS RECOVERY

COMPANY: Woolsey Petro. Corp.

DATE: 6-16-98

WELL NAME: Z-Bar Cattle Co.#6

KB Elev: 1680.00 ft TICKET #10298 DST #6

WELL LOCATION: 30-34s-14w

GR Elev: 1669.00 ft FORMATION: Viola

INTERVAL Fr.: 5310.00 To 5350.00 T.D.: 5350.00 ft TEST TYPE: CONV.

GAS RECOVERY MEASURED WITH orifice

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
8	1.50	0	15	270000.0
18	1.50	0	16	278000.0
28	1.50	0	15	270000.0

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.50	0	8	197000.0
10	1.50	0	15	270000.0
15	1.50	0	15	270000.0
20	1.50	0	14	260000.0
25	1.50	0	13	251000.0
30	1.50	0	12	241000.0
35	1.50	0	11	231000.0
40	1.50	0	10	220000.0
45	1.50	0	9	209000.0
50	1.50	0	9	209000.0
55	1.50	0	8	197000.0
60	1.50	0	8	197000.0

*** TOOL DIAGRAM *** CONV.

WELL NAME: Z-Bar Cattle Co.#6

LOCATION : 30-34S-14W

TICKET No. 10298 D.S.T. No. 6 DATE 6-16-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 40

TOTAL TOOL 68

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
13	1	1	1
14	1	1	1
15	1	1	1
16	1	1	1
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91	1	1	1
92	1	1	1
93	1	1	1
94	1	1	1
95	1	1	1
96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

D.P. ANCHOR STND.Stands	Single	Total
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
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92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands	Single	Total
-------------------------	--------	-------

D.P. ABOVE TOOLS.Stands85 Single 1 Total 5312

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5380

TOTAL DEPTH 5350

TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS :

P.O. SUB 5160

C.O. SUB	5282
----------	------

S.I. TOOL 5286

HMV 5291

JARS	5296
------	------

SAFETY JOINT	5301
--------------	------

PACKER 5305

PACKER 5310

DEPTH

STUBB	5311
-------	------

ANCHOR 5'perf	5316
---------------	------

5' "	5321
------	------

5' "	5326
------	------

5' "	5331
------	------

5' "	5336
------	------

Alpine@5314

A-K1 @5318

T.C.

DEPTH

4 'perf	5340
---------	------

4 " 5344

1' " 5345

3' " 5348

BULLNOSE 2'bullplug	5350
---------------------	------

T.D. 5350

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number:	982323	Analyzed:	06/18/98
Sample From:	2-Bar Cattle Co. #6 DST 6	Pressure:	
Producer:	Woolsey Petroleum	Temperature:	
Date:		Location:	30-34-14
Time:		County:	Barber
Sampler:		State:	Kansas
Source:		Formation:	Viola

	Mole %	GPM
Helium	He: 0.104	0.000
Hydrogen	H2: 0.014	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 4.896	0.000
Carbon Dioxide	CO2: 0.225	0.000
Methane	C1: 69.786	0.000
Ethane	C2: 6.173	1.651
Propane	C3: 7.394	2.037
Iso Butane	iC4: 0.651	0.213
Normal Butane	nC4: 3.228	1.018
Iso Pentane	iC5: 1.000	0.366
Normal Pentane	nC5: 1.810	0.656
Hexanes Plus	C6+: 4.719	2.059

TOTAL: 100.000 7.999
Z Fact: 0.9945
SP.GR.: 0.9192
BTU (SAT): 1466.8 @ 14.73 psia
BTU (DRY): 1492.8 @ 14.73 psia
OCTANE RATING: 110.4

COMMENTS:

0.000

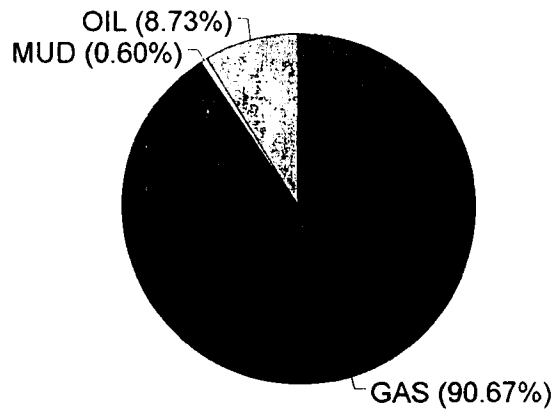
CALCULATED RECOVERY ANALYSIS

DST 6

TICKET 10298

SAMPLE		TOTAL	GAS		OIL		WATER		MUD	
#		FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	4797	100	4797		0		0		0
PIPE	2	460		0	100	460		0		0
	3	60	40	24	7	4.2		0	53	31.8
	4			0		0		0		0
	5			0		0		0		0
	6			0		0		0		0
WEIGHT	1			0		0		0		0
PIPE	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
DRILL	1							0		0
COLLARS	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
	5			0		0		0		0
TOTAL		5317		4821		464.2		0		31.8

			HRS OPEN		BBL/DAY
BBL OIL=	6.600924	*	1.5	=	105.6148
BBL WATER=	0	*		=	0
BBL MUD=	0.452196				
BBL GAS =	68.55462				



TEST HISTORY

10298 DST#6 Z-Bar Cattle Co.#6 Woolsey Petro. Corp.

Flag Points

	t(Min.)	P(PSig)
A:	0.00	2563.39
B:	0.00	216.04
C:	29.50	166.33
D:	62.00	1982.56
E:	0.00	177.55
F:	57.75	197.87
G:	239.00	1942.59
Q:	0.00	2480.20

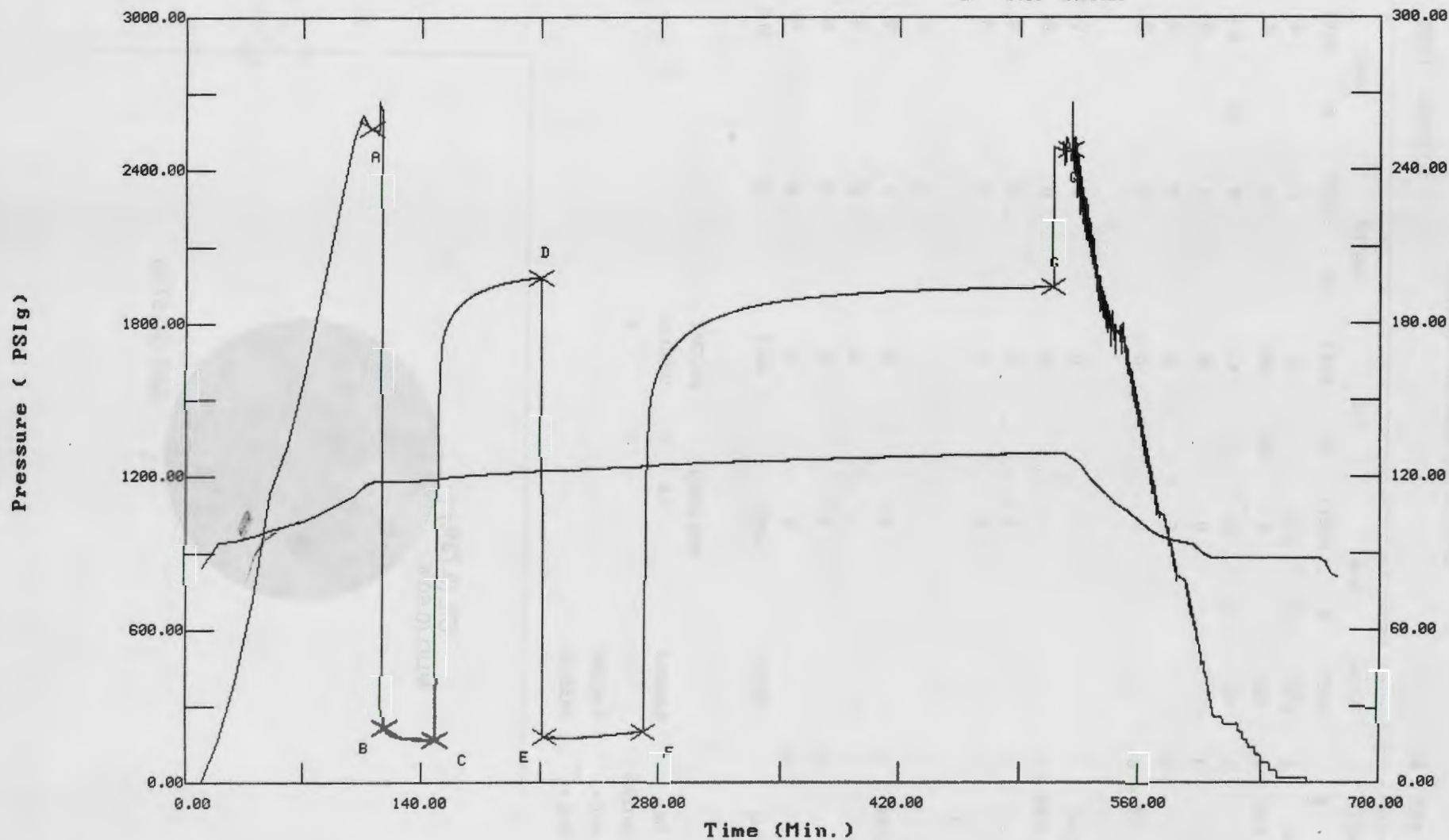
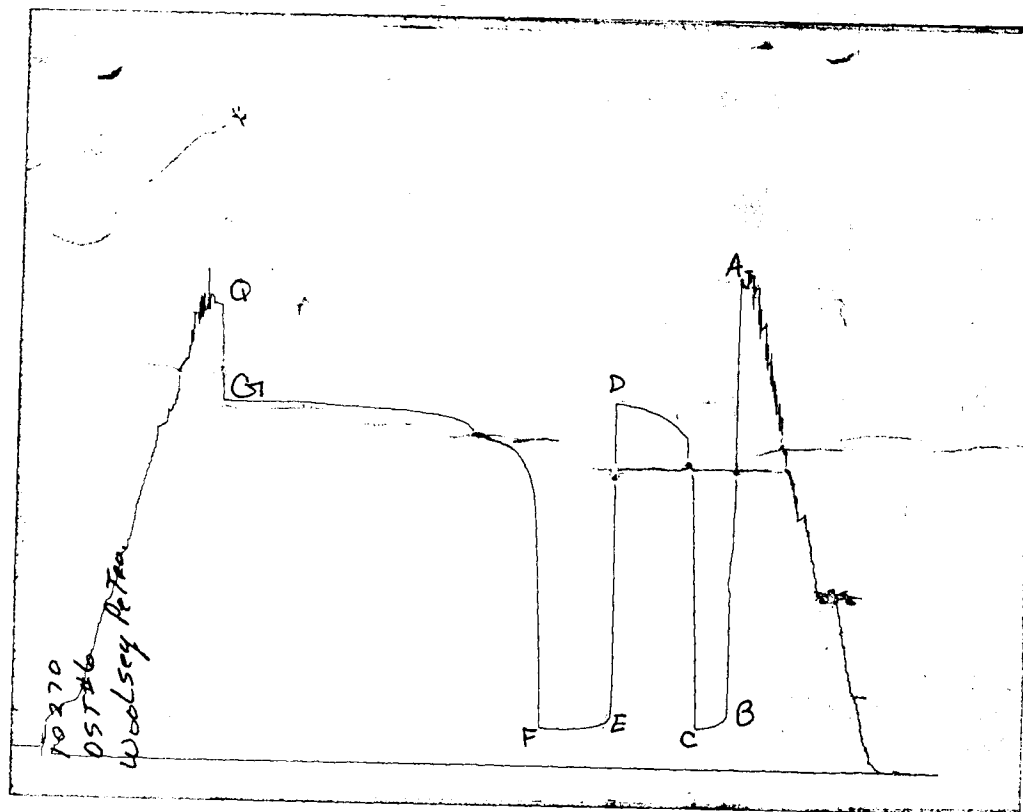


CHART PAGE



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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Woolsey Petro. Corp.

OPERATOR

Z-BAR CATTLE Co #6

WELL NAME AND NO.

DST NO.

GAS SURFACED IN 5 min

Flow Rate Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	CF/D
8	15	1 1/2	270,000				
8	16	1 1/2	278,000				
8	15	1 1/2	270,000				
2							
5	8	1 1/2	197,000				
0	15	1 1/2	270,000				
5	15	1 1/2	270,000				
0	14	1 1/2	260,000				
5	13	1 1/2	251,000				
30	12	1 1/2	241,000				
5	11	1 1/2	231,000				
10	10	1 1/2	220,000				
15	9	1 1/2	209,000				
50	9	1 1/2	209,000				
55	8	1 1/2	197,000				
60	8	1 1/2	197,000				

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 10298

Well Name & No.	<u>Z-BAR CATTLE Co, #6</u>	Test No.	<u>6</u>	Date	<u>6-16-98</u>
Company	<u>Woolsey Petroleum Corporation</u>	Zone Tested	<u>Viola</u>		
Address	<u>125 N. Market, Suite 1000 Wichita, KS 67202-12</u>	Elevation	<u>1680</u>	KB	<u>1669</u> GL
Co. Rep / Geo.	<u>Mike Maune</u>	Cont.	<u>Duke Drilling</u>	Est. Ft. of Pay	<u>75</u> Por. <u>-</u> %
Location: Sec.	<u>30</u>	Twp.	<u>34^s</u>	Rge.	<u>14th</u> Co. <u>Barber</u> State <u>Ks</u>
No. of Copies	<u>Reg 5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u>-</u>

Interval Tested	<u>5310-5350</u>	Initial Str Wt./Lbs.	<u>50000</u>	Unseated Str Wt./Lbs.	<u>52000</u>
Anchor Length	<u>40</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>58000</u>
Top Packer Depth	<u>5305</u>	Tool Weight	<u>2900</u>		
Bottom Packer Depth	<u>5310</u>	Hole Size — 7 7/8"	<u>yes</u>	Rubber Size — 6 3/4"	<u>yes</u>
Total Depth	<u>5350</u>	Wt. Pipe Run	<u>-</u>	Drill Collar Run	<u>-</u>
Mud Wt. <u>9.1</u> LCM <u>8</u> Vis. <u>50</u> WL <u>6.8</u>		Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>5282</u>
Blow Description	<u>IFP - STRONG BLOW GAS SURFACED IN 5 min</u> <u>FFP - GAS TO SURFACE</u>				

Recovery — Total Feet	<u>485</u>	GIP	<u>-</u>	Ft. in DC	<u>-</u>	Ft. in DP	<u>485</u>
Rec.	<u>425</u>	Feet Of	<u>CLEAN OIL</u>	%gas	<u>-</u>	%oil	<u>-</u>
Rec.	<u>60</u>	Feet Of	<u>Gassy oil cut mud</u>	%gas	<u>7</u>	%oil	<u>-</u>
Rec.		Feet Of		%gas	<u>-</u>	%oil	<u>-</u>
Rec.		Feet Of		%gas	<u>-</u>	%oil	<u>-</u>
Rec.		Feet Of		%gas	<u>-</u>	%oil	<u>-</u>
BHT	<u>118</u>	°F Gravity	<u>40</u>	°API D@	<u>60</u>	°F Corrected Gravity	<u>40</u>
RW	<u>-</u>	@	<u>-</u>	°F Chlorides	<u>-</u>	ppm Recovery	<u>4500</u>
(A) Initial Hydrostatic Mud	<u>2563</u>	PSI	<u>2536</u>	Recorder No.	<u>3027</u>	T-Started	<u>2223</u>
(B) First Initial Flow Pressure	<u>193</u>	PSI	<u>270</u>	(depth)	<u>5314</u>	T-Open	<u>0020</u>
(C) First Final Flow Pressure	<u>186</u>	PSI	<u>218</u>	Recorder No.	<u>10270</u>	T-Pulled	<u>0650</u>
(D) Initial Shut-in Pressure	<u>1980</u>	PSI	<u>1952</u>	(depth)	<u>5318</u>	T-Out	<u>1000</u>
(E) Second Initial Flow Pressure	<u>177</u>	PSI	<u>239</u>	Recorder No.	<u>-</u>		
(F) Second Final Flow Pressure	<u>196</u>	PSI	<u>197</u>	(depth)	<u>-</u>		
(G) Final Shut-in Pressure	<u>1942</u>	PSI	<u>1931</u>	Initial Opening	<u>30</u>	Test	<u>✓</u>
(H) Final Hydrostatic Mud	<u>2481</u>	PSI	<u>2462</u>	Initial Shut-in	<u>60</u>	Jars	<u>✓</u>
	<u>Alpine</u>		<u>AK-1</u>	Final Flow	<u>60</u>	Safety Joint	<u>✓</u>
				Final Shut-in	<u>240</u>	Straddle	<u>-</u>

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Approved By

Michael K. Maune

onloc 2000
offloc

Other