

15-007-22601

KCC

ORIGINAL

FEB 17 2000
CONFIDENTIAL
CONFIDENTIAL

Well Name: Bell A-2
Company: Woolsey Petroleum Co.
Location: 29-33s-13w
Barber county Kansas
Date: 11-30-99

RECEIVED
KANSAS CORPORATION COMMISSION

RELEASED

APR 25 2002

FEB 09 2000

FROM CONFIDENTIAL
CONSERVATION DIVISION
WICHITA, KS

DEC - 1 1999

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Woolsey Petroleum Corp.

DATE 11-19-99

WELL NAME: Bell A-2

KB 1723.00 ft

TICKET NO: 12407

DST #1

LOCATION : 29-33s-13w Barber co KS

GR 1714.00 ft

FORMATION: Snyderville

INTERVAL : 3926.00 To 3970.00 ft

TD 3970.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13308	13308	3227			PF Fr. 0056 to 0126 hr
SI 60	Range(Psi)	4700.0	4700.0	4995.0	0.0	0.0	IS Fr. 0126 to 0226 hr
SF 60	Clock(hrs)	12	12	elect			SF Fr. 0226 to 0326 hr
FS 240	Depth(ft)	3967.0	3967.0	3932.0	0.0	0.0	FS Fr. 0326 to 0726 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	1936.0	0.0	0.0	T STARTED 2300 hr
B. First Flow	0.0	0.0	41.0	0.0	0.0	T ON BOTM 0054 hr
B1. Final Flow	0.0	0.0	29.0	0.0	0.0	T OPEN 0056 hr
C. In Shut-in	0.0	0.0	680.0	0.0	0.0	T PULLED 0726 hr
D. Init Flow	0.0	0.0	36.0	0.0	0.0	T OUT 0905 hr
E. Final Flow	0.0	0.0	30.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1381.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	1849.0	0.0	0.0	Tool Wt. 2400.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 20.00 ft of 0.00 ft in DC and 20.00 ft in DP
20.00 ft of Slightly gassy mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of 6' of pay
0.00 ft of
0.00 ft of Rw 1.3 @ 49

SALINITY 7000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak building to bottom of bucket
in 8 minutes

Initial Shut-in:

Blow built to 7"

Final Flow:

Strong blow immediatly- Gas to
surface 45 minutes into final flow
gauged 7.5 mcfd at end of flow

Final Shut-in:

Blow built to 8"

SAMPLES: 1 taken final flow

SENT TO: Caraway Labs

KCC

FEB 17 2000

CONFIDENTIAL**RELEASED**

APR 25 2002

FROM CONFIDENTIAL

MUD DATA-----

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

Amt. of fill	0.00 ft
Btm. H. Temp.	109.00 F
Hole Condition	Good
% Porosity	16.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Paul Simpson
Co. Rep.	Mike Maune
Contr.	Duke
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

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: 996151	Analyzed: 11/23/99
Sample From: Bell A-2 DST 1	Pressure:
Producer: Woolsey Petroleum	Temperature:
Date:	Location: 29-33-13
Time:	County: Barber
Sampler:	State: Kansas
Source:	Formation: Snyderville

	Mole %	GPM
Helium	He: 0.079	0.000
Hydrogen	H2: 0.004	0.000
Oxygen	O2: 14.401	0.000
Nitrogen	N2: 55.164	0.000
Carbon Dioxide	CO2: 0.099	0.000
Methane	C1: 27.075	0.000
Ethane	C2: 1.393	0.373
Propane	C3: 0.905	0.249
Iso Butane	iC4: 0.133	0.044
Normal Butane	nC4: 0.325	0.102
Iso Pentane	iC5: 0.091	0.033
Normal Pentane	nC5: 0.113	0.041
Hexanes Plus	C6+: 0.218	0.095

TOTAL: 100.000 0.937
Z Fact: 0.9991
SP.GR.: 0.8949
BTU (SAT): 350.1 @ 14.73 psia
BTU (DRY): 356.3 @ 14.73 psia
OCTANE RATING: 38.1

COMMENTS:

14.401

GAS RECOVERY

COMPANY: Woolsey Petroleum Corp.

DATE: 11-19-99

WELL NAME: Bell A-2

KB Elev: 1723.00 ft TICKET #12407 DST #1

WELL LOCATION: 29-33s-13w Barber co KS

GR Elev: 1714.00 ft FORMATION: Snyderville

INTERVAL Fr.: 3926.00 To 3970.00 T.D.: 3970.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Adjustable Choke

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
45	0.12	5	0	6800.0
55	0.12	6	0	7200.0
60	0.12	7	0	7500.0

*** TOOL DIAGRAM *** CONV

WELL NAME: Bell A-2

LOCATION : 29-33s-13w Barber co KS

TICKET No. 12407 D.S.T. No. 1 DATE 11-19-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 13

TOTAL TOOL 40

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 71

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands63 Single Total 3918

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3989

TOTAL DEPTH 3970

TOTAL DRILL PIPE ABOVE K.B. 19

REMARKS:

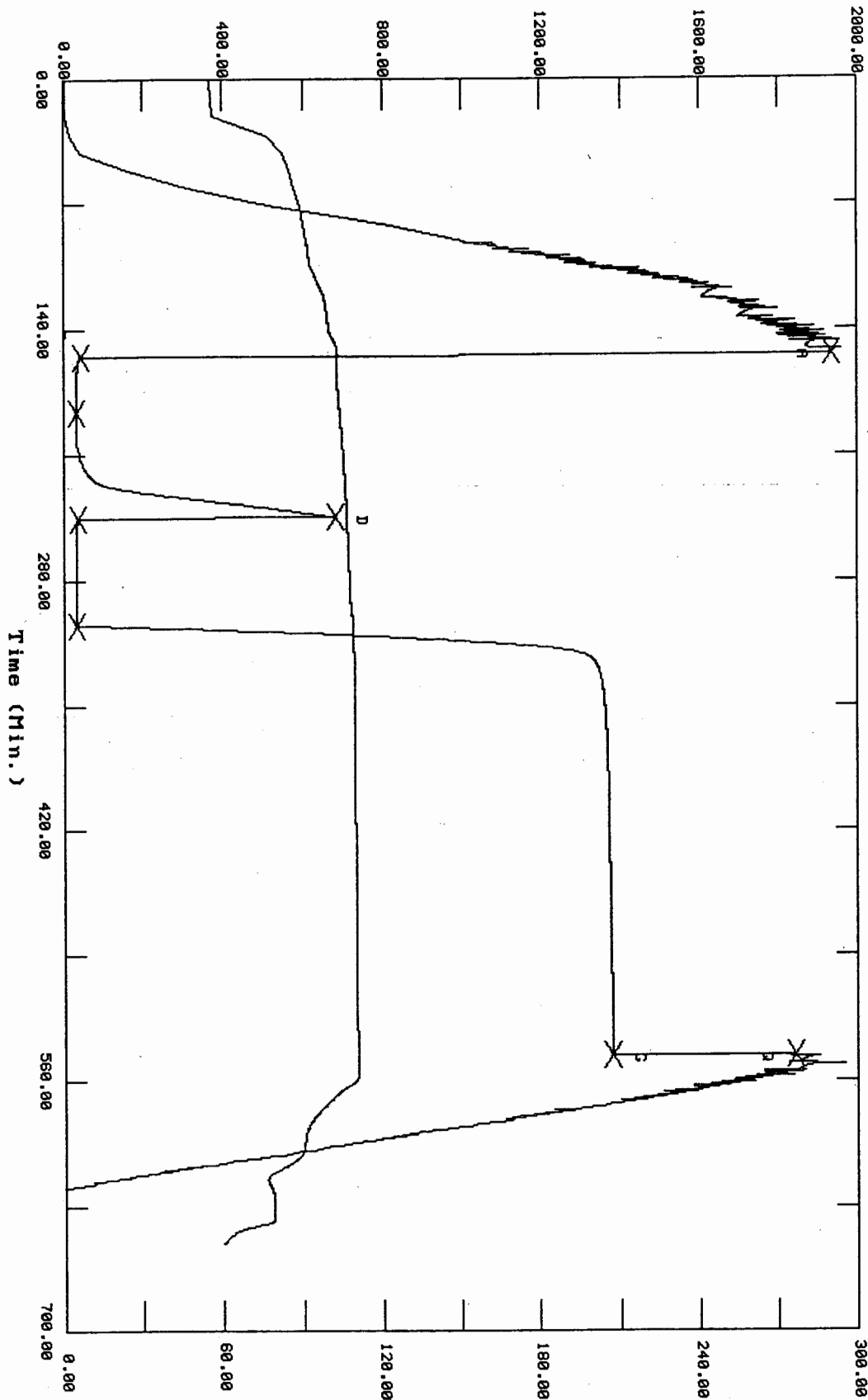
P.O. SUB Top of tool @	3899
C.O. SUB	
S.I. TOOL Sterling	3905
HMV Sterling	3910
JARS Sterling	3915
SAFETY JOINT Bowen	3917
PACKER top	3921
PACKER bottom	3926
DEPTH 3926	
STUBB 1'	3927
ANCHOR 5' Perfs	3932
Alpine @ 3932	
1 joint of pipe & subs to	3964
T.C. DEPTH	
3' Perfs	3967
AK-1 @ 3967	
BULLNOSE	
T.D. 3' to	3970

TEST HISTORY

12407 Woolsey Petroleum Corp. Bell A-2 DST #1

Flag Points

t (Min.)	P (PSig)
A: 0.00	1936.28
B: 0.00	41.22
C: 31.25	29.42
D: 58.75	680.29
E: 0.00	36.03
F: 59.50	30.12
G: 240.75	1381.06
H: 0.00	1846.56

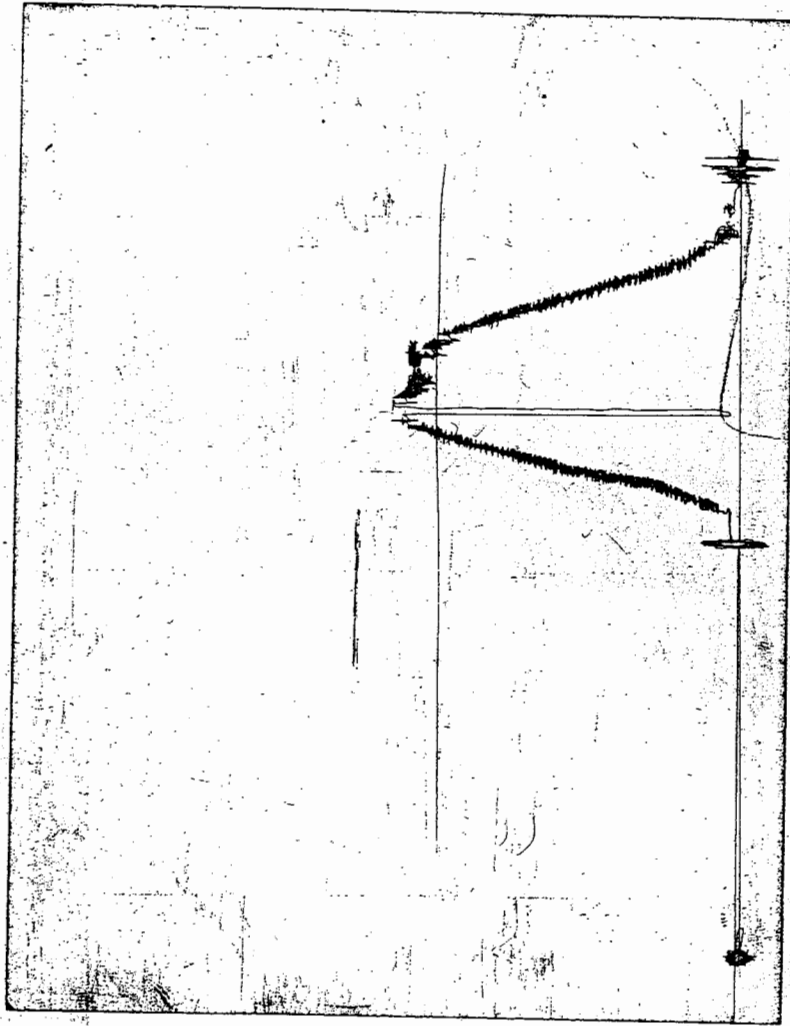


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

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

Test Ticket

Nº 12407

Well Name & No. <u>Bell A-2</u>	Test No. <u>1</u>	Date <u>11-19-99</u>
Company <u>Woolsey Petroleum Corp</u>	Zone Tested <u>Snyderville</u>	
Address <u>125 N Market H1000 Wichita, KS 67202</u>	Elevation <u>1723</u>	KB1714 GL
Co. Rep / Geo. <u>Mike Maune</u>	Cont. <u>Duke #4</u>	Est. Ft. of Pay <u>6</u> Por. <u>16</u> %
Location: Sec. <u>29</u> Twp. <u>33S</u>	Rge. <u>BW</u>	Co. <u>Barber</u> State <u>Ks</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3926-3970</u>	Initial Str Wt./Lbs. <u>54,000</u>	Unseated Str Wt./Lbs. <u>54,000</u>
Anchor Length <u>44</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>54,000</u>
Top Packer Depth <u>3921</u>	Tool Weight <u>2400</u>	
Bottom Packer Depth <u>3926</u>	Hole Size — 7 7/8"	Rubber Size — 6 3/4"
Total Depth <u>3970</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9.1</u> LCM _____ Vis. <u>50</u> WL _____	Drill Pipe Size <u>4 1/2 x 11</u>	Ft. Run <u>3918</u>
Blow Description <u>1" blow building to bottom of bucket in 8 minutes</u>		
<u>ISI - blow built to 7"</u>		
<u>FF - strong - bottom of bucket immediately GTS 45 minutes into</u>		
<u>final flow 7.2 mcf/d</u>		

Recovery — Total Feet <u>20</u>	GIP <u>GTS</u>	Ft. in DC _____	Ft. in DP <u>20</u>
Rec. <u>20</u>	Feet Of <u>Sassy mud</u>	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____	Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____

BHT _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW 1.3 @ 49 °F Chlorides 2000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>C</u>	Alpine <u>1936</u>	PSI Recorder No. <u>3227</u>	T-On Location <u>1900</u>
(B) First Initial Flow Pressure	<u>1</u>	<u>41</u>	PSI (depth) <u>3932</u>	T-Started <u>2300</u>
(C) First Final Flow Pressure	<u>0</u>	<u>29</u>	PSI Recorder No. <u>13308</u>	T-Open <u>0056</u>
(D) Initial Shut-In Pressure	<u>C</u>	<u>680</u>	PSI (depth) <u>3967</u>	T-Pulled <u>0726</u>
(E) Second Initial Flow Pressure	<u>k</u>	<u>36</u>	PSI Recorder No. _____	T-Out <u>0905</u>
(F) Second Final Flow Pressure	<u>e</u>	<u>30</u>	PSI (depth) _____	T-Off Location _____
(G) Final Shut-in Pressure	<u>q</u>	<u>1381</u>	PSI Initial Opening _____	Test <u>600</u>
(Q) Final Hydrostatic Mud		<u>1849</u>	PSI Initial Shut-in _____	Jars <u>X</u> <u>200</u>

Final Flow _____ Safety Joint X 50
 Final Shut-in 63 stands Straddle _____
 Circ. Sub _____
 Sampler _____

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
 Our Representative Paul Simpson

Extra Packer _____
 Elec. Rec. X 150
 Mileage _____
 Other shy 3@30 90
 TOTAL PRICE \$ 1090

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petroleum Corp.
WELL NAME: Bell A-2
LOCATION : 29-33s-13w Barber co KS
INTERVAL : 4119.00 To 4140.00 ft

DATE 11-20-99
KB 1723.00 ft TICKET NO: 12408 DST #2
GR 1714.00 ft FORMATION: Lansing A
TD 4140.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11084	11084	3227			PF Fr. 1029 to 1059 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1059 to 1159 hr
SF 60 Clock(hrs)	12	12	elect			SF Fr. 1159 to 1259 hr
FS 240 Depth(ft)	4137.0	4137.0	4125.0	0.0	0.0	FS Fr. 1259 to 0459 hr

	Field	1	2	3	4	
A. Init Hydro	2037.0	2030.0	2004.0	0.0	0.0	T STARTED 0911 hr
B. First Flow	33.0	44.0	13.0	0.0	0.0	T ON BOTM 1027 hr
B1. Final Flow	33.0	44.0	18.0	0.0	0.0	T OPEN 1029 hr
C. In Shut-in	1358.0	1357.0	1360.0	0.0	0.0	T PULLED 1659 hr
D. Init Flow	0.0	0.0	17.0	0.0	0.0	T OUT 1856 hr
E. Final Flow	0.0	0.0	28.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1449.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2015.0	1997.0	1946.0	0.0	0.0	Tool Wt. 2200.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 58000.00 lbs
						Initial Str Wt 54000.00 lbs
						Unseated Str Wt 54000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 4104.00 ft

RECOVERY

Tot Fluid 30.00 ft of 0.00 ft in DC and 30.00 ft in DP
30.00 ft of gassy mud
0.00 ft of
600.00 ft of gas in pipe
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of 10' of pay
0.00 ft of Rw 1.1 @ 60
SALINITY 7500.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Weak building to bottom of bucket
in 8 minutes
Initial Shut-in:
Weak 1/8" blow
Final Flow:
5" blow building to bottom of bucket
in 20 mins.
Final Shut-in:
Weak surface blow

SAMPLES:
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 9.30 lb/c
Vis. 58.00 S/L
W.L. 8.00 in3
F.C. 0.00 in
Mud Drop N
Amt. of fill 0.00 ft
Btm. H. Temp. 116.00 F
Hole Condition Good
% Porosity 10.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester Paul Simpson
Co. Rep. Mike Maune
Contr. Duke
Rig # 4
Unit #
Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Bell A-2

LOCATION : 29-33s-13w Barber co KS

TICKET No. 12408 D.S.T. No. 2 DATE 11-20-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL 21

TOTAL TOOL 48

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.Stands Single Total 4104

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4152

TOTAL DEPTH 4140

TOTAL DRILL PIPE ABOVE K.B. 11

REMARKS:

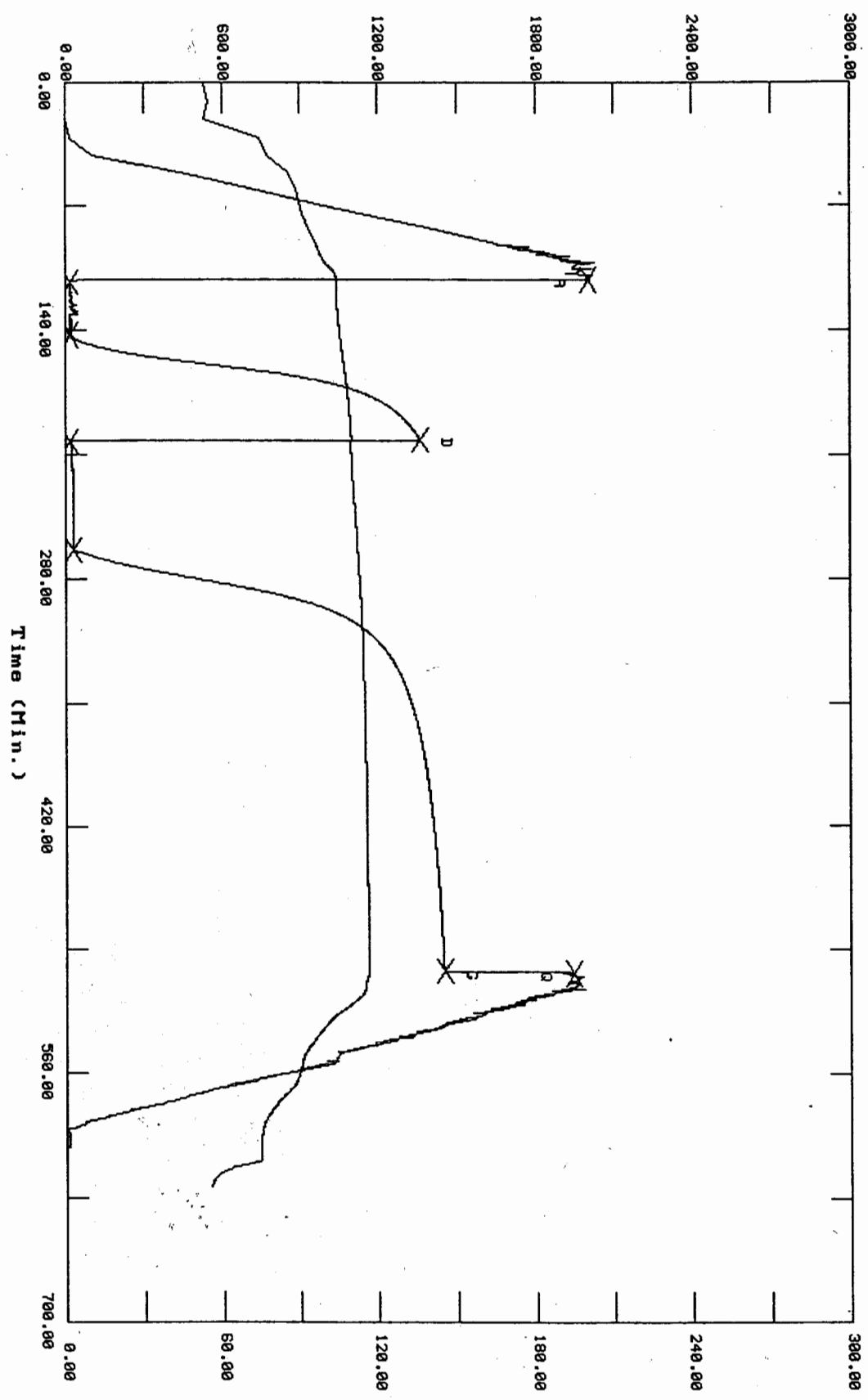
P.O. SUB Top of tool @	3899
C.O. SUB	
S.I. TOOL Sterling	3905
HMV Sterling	4103
JARS Sterling	4108
SAFETY JOINT Bowen	4110
PACKER top	4114
PACKER bottom	4119
DEPTH 4119	
STUBB 1'	4120
ANCHOR 5' Perfs	4125
Alpine @ 4125	
5' perf	4130
3' perf	4133
T.C.	
DEPTH	
4' perf	4137
AK-1 @ 4137	
BULLNOSE	
T.D. 3' to	4140

12408 Woolsey Petroleum Corp. Bell A-2 DST #2

TEST HISTORY

Flag Points
t(Min.) P(PSig)

R:	0.00	2004.43
B:	0.00	13.34
C:	30.00	18.09
D:	58.75	1360.27
E:	0.00	18.69
F:	61.25	28.22
G:	238.25	1449.38
H:	0.00	1948.35

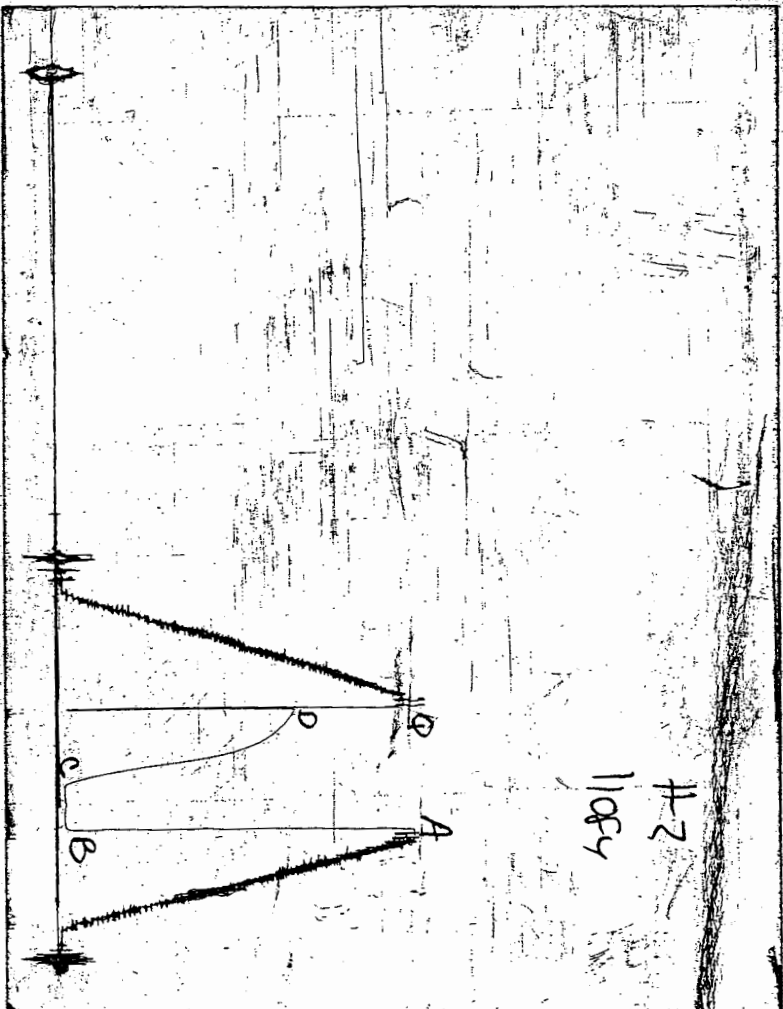


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

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

Test Ticket

Nº 12408

Well Name & No.	Bell A-2	Test No.	2	Date	11-20-99
Company	Woolsey Petroleum Corp	Zone Tested	Lansing A		
Address		Elevation	1723	KB	1714 GL
Co. Rep / Geo.	Mike Maune	Cont.	Duke #4	Est. Ft. of Pay	10 Por. 10 %
Location: Sec.	29	Twp.	33s	Rge.	13w Co. Barber State KS
No. of Copies	5	Distribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	4119-4140	Initial Str Wt./Lbs.	54,000	Unseated Str Wt./Lbs.	54,000
Anchor Length	21	Wt. Set Lbs.	20,000	Wt. Pulled Loose/Lbs.	58,000
Top Packer Depth	4114	Tool Weight	2200		
Bottom Packer Depth	4119	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	4140	Wt. Pipe Run		Drill Collar Run	
Mud Wt.	9.3 LCM 5.8 Vis. 5.8 WL 8.0	Drill Pipe Size	4 1/2 x 11	Ft. Run	4104
Blow Description	1" blow building to bottom of bucket in 8 minutes FST weak 1/8" blow FST 5" blow building to bottom of bucket in 20 minutes FST - surface blow				

Recovery — Total Feet	30	GIP	600	Ft. in DC		Ft. in DP	30
Rec.	30	Feet Of	Mud	%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	116	°F Gravity		°API D@		°F Corrected Gravity	
°API							
RW		@		°F Chlorides		ppm Recovery	Chlorides 6200 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	2037	2004	11084	0730
(B) First Initial Flow Pressure	33	13	(depth) 4137	T-Started 0911
(C) First Final Flow Pressure	33	18	PSI Recorder No. 3227	T-Open 1029
(D) Initial Shut-In Pressure	1358	1360	(depth) 4125	T-Pulled 1659
(E) Second Initial Flow Pressure		17	PSI Recorder No.	T-Out 1856
(F) Second Final Flow Pressure		28	PSI (depth)	T-Off Location
(G) Final Shut-in Pressure		1449	PSI Initial Opening 30	Test 700
(Q) Final Hydrostatic Mud	2615	9948	PSI Initial Shut-in 60	Jars X 200

Final Flow	60	Safety Joint	X 50
Final Shut-in	240	Straddle	
66 standards		Circ. Sub	
		Sampler	

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Approved By Mike R. Maune
Our Representative Karl Simpson

Extra Packer	
Elec. Rec.	X 150
Mileage	
Other	Stibby 2 @ 30 = 60
TOTAL PRICE \$	1160

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Pet,corp.

DATE 11/21/199

WELL NAME: Bell A #2

KB 1723.00 ft

TICKET NO: 12333 DST #3

LOCATION : 29-33s-13w Barber co KS

GR 1714.00 ft

FORMATION: Lansing (E)

INTERVAL : 4316.00 To 4335.00 ft

TD 4335.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	3246			PF Fr. 2252 to 2322 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 2322 to 0022 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0022 to 0122 hr
FS 240 Depth(ft)	4332.0	4332.0	4322.0	0.0	0.0	FS Fr. 0122 to 0522 hr

	Field	1	2	3	4	
A. Init Hydro	2177.0	2183.0	2136.0	0.0	0.0	T STARTED 2018 hr
B. First Flow	21.0	27.0	32.0	0.0	0.0	T ON BOTM 2249 hr
B1. Final Flow	21.0	24.0	32.0	0.0	0.0	T OPEN 2252 hr
C. In Shut-in	1523.0	1528.0	1547.0	0.0	0.0	T PULLED 0522 hr
D. Init Flow	32.0	42.0	34.0	0.0	0.0	T OUT 0700 hr
E. Final Flow	32.0	42.0	51.0	0.0	0.0	
F. Fl Shut-in	1544.0	1569.0	1577.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2166.0	2124.0	2112.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 56000.00 lbs
						Unseated Str Wt 56000.00 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 4318.00 ft

RECOVERY

Tot Fluid 70.00 ft of 0.00 ft in DC and 70.00 ft in DP
 4248.00 ft of Gas in pipe
 70.00 ft of Slight gas cut watery mud
 0:00 ft of 10% gas 30% water 60% 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 40000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type chemical
 Weight 9.30 lb.
 Vis. 56.00 S/I
 W.L. 11.60 in.
 F.C. 0.32 in
 Mud Drop N

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in
 30 secs.
 Initial Shut-in:
 Bled down for 2 mins.no blow back.
 Final Flow:
 Strong blow bottom of bucket in
 15 secs. gas to surface in 8 mins.
 gauge gas
 Final Shut-in:
 Bled down for 2 mins. no blow back
 no blow back

Amt. of fill 0.00 ft
 Btm. H. Temp. 120.00 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 L.Amerine
 Co. Rep. Mikeal K.Maune
 Contr. Duke
 Rig # 4
 Unit # no
 Pump T. none

SAMPLES: caraway analytical 728 N. Roosevelt
 SENT TO:Liberal Ks.67601

Test Successful: Y

GAS RECOVERY

COMPANY: Woolsey Pet, corp.

DATE: 11/21/199

WELL NAME: Bell A #2

KB Elev: 1723.00 ft TICKET #12333 DST #3

WELL LOCATION: 29-33s-13w Barber co KS

GR Elev: 1714.00 ft FORMATION: Lansing (E)

INTERVAL Fr.: 4316.00 To 4335.00 T.D.: 4335.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj.Choke

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
13	0.06	0	4	5116.0
18	0.06	0	6	5141.0
23	0.06	0	7	5154.0
28	0.06	0	8	5166.0
33	0.06	0	8	5166.0
38	0.06	0	9	5179.0
43	0.06	0	10	5191.0
48	0.06	0	10	5191.0
53	0.06	0	11	5204.0
58	0.06	0	11	5204.0

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: 996152
 Sample From: Bell A-2 DST 3
 Producer: Woolsey Petroleum
 Date:
 Time:
 Sampler:
 Source:

Analyzed: 11/23/99
 Pressure:
 Temperature:
 Location: 29-33-13
 County: Barber
 State: Kansas
 Formation: Lansing E

		Mole %	GPM
Helium	He:	0.222	0.000
Hydrogen	H2:	0.000	0.000
Oxygen	O2:	0.025	0.000
Nitrogen	N2:	12.876	0.000
Carbon Dioxide	CO2:	0.072	0.000
Methane	C1:	75.547	0.000
Ethane	C2:	5.839	1.562
Propane	C3:	2.976	0.820
Iso Butane	iC4:	0.368	0.120
Normal Butane	nC4:	0.945	0.298
Iso Pentane	iC5:	0.250	0.091
Normal Pentane	nC5:	0.309	0.112
Hexanes Plus	C6+:	0.571	0.249

TOTAL: 100.000 3.253
 Z Fact: 0.9975
 SP.GR.: 0.7113
 BTU (SAT): 1022.5 @ 14.73 psia
 BTU (DRY): 1040.6 @ 14.73 psia
 OCTANE RATING: 108.8

COMMENTS:

0.025

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Bell A #2

LOCATION : 29-33s-13w Barber co KS

TICKET No. 12333 D.S.T. No. 3 DATE 11/21/199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 19

TOTAL TOOL 47

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.Stands69 Single 1 Total 4318

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4365

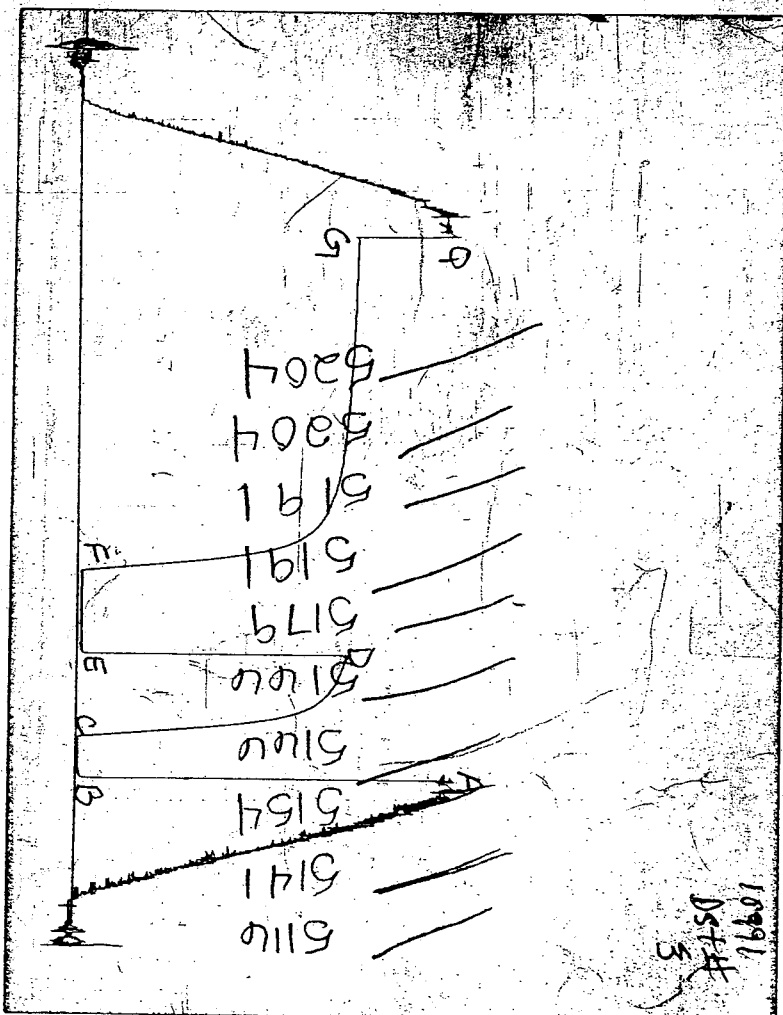
TOTAL DEPTH 4335

TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS:

P.O. SUB Top of tool @	4289
C.O. SUB	4290
S.I. TOOL	4295
HMV	4300
JARS	4305
SAFETY JOINT	4307
PACKER	4311
PACKER	4316
DEPTH 4316	
STUBB 1' to	4317
ANCHOR 13' of perfs.to	4330
Alpine rec.@ 4322	
	4330
T.C.	
DEPTH	
	4330
Ak-1 rec.@ 4332	
BULLNOSE 5' Bullnose to	4335
T.D.	

CHART PAGE



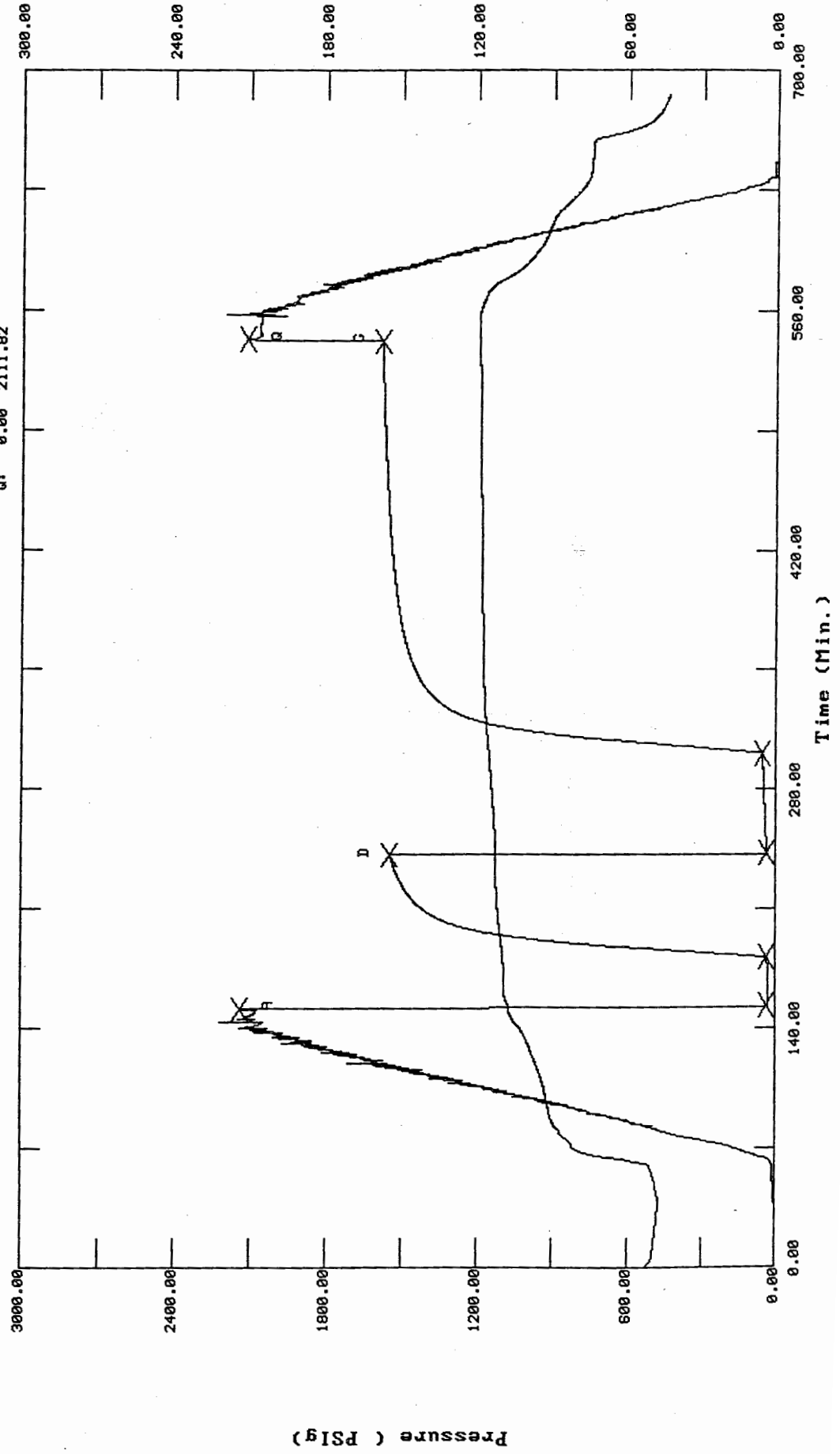
This is a photocopy of the actual AK-1 recorder chart

TEST HISTORY

TK#12333 DST #3 Bell A#2 Woolsey Pet, Corp.

Flag Points

	t (Min.)	P (PSIg)
A:	0.00	2135.01
B:	0.00	31.67
C:	28.50	31.85
D:	60.00	1546.63
E:	0.00	34.19
F:	58.25	51.07
G:	241.00	1576.69
H:	0.00	2111.82



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 12333

Test Ticket

Well Name & No. Bell A #2 Test No. #3 Date 11/21/1999
 Company Woolsey Petroleum Corp. Zone Tested Lans E
 Address 125 N. Market, Suite 1000 Wichita, KS Elevation 1723 KB 174 GL
 Co. Rep / Geo. Mike Monty Cont. Dutse #4 Est. Ft. of Pay Por.
 Location: Sec. 29 Twp. 33S Rge. 13 W Co. Barber State KS
 No. of Copies 5 Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 4316'-4335' Initial Str Wt./Lbs. 56000 Unseated Str Wt./Lbs. 56000
 Anchor Length 19' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 650
 Top Packer Depth 4311' Tool Weight 2100
 Bottom Packer Depth 4316' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" —
 Total Depth 4335' Wt. Pipe Run N/A Drill Collar Run N/A
 Mud Wt. 9.3 LCM — Vis. 56 WL 11.6 Drill Pipe Size 4 1/2 XH Ft. Run 4318'

Blow Description IF: Strong blow b.o.b in 30 sec.
IS: Bled down for 2 mins No blow back
FF: Strong blow b.o.b in 15 sec. GTS in 8 min Gauge
FS: Bled down for 2 mins.

Recovery — Total Feet 70' GIP 4248 Ft. in DC N/A Ft. in DP 70'
 Rec. 70 Feet Of 560 W/M 10% gas %oil 30 %water 60 %m
 Rec. 4248' Feet Of Gas In pipe %gas %oil %water %m
 Rec. — Feet Of — %gas %oil %water %m
 Rec. — Feet Of — %gas %oil %water %m
 Rec. — Feet Of — %gas %oil %water %m

BHT 120° °F Gravity — °API D@ — °F Corrected Gravity —
 RW 2 @ 60 °F Chlorides 40,000 ppm Recovery Chlorides 5800 ppm Syst

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2177</u>	<u>2136</u>	PSI Recorder No.	<u>3246</u>	T-On Location <u>1915</u>
(B) First Initial Flow Pressure	<u>21</u>	<u>32</u>	PSI (depth)	<u>4322'</u>	T-Started <u>2018</u>
(C) First Final Flow Pressure	<u>21</u>	<u>32</u>	PSI Recorder No.	<u>10991</u>	T-Open <u>2252</u>
(D) Initial Shut-In Pressure	<u>1523</u>	<u>1547</u>	PSI (depth)	<u>4332'</u>	T-Pulled <u>0522</u>
(E) Second Initial Flow Pressure	<u>32</u>	<u>34</u>	PSI Recorder No.	<u>—</u>	T-Out <u>0700</u>
(F) Second Final Flow Pressure	<u>32</u>	<u>31</u>	PSI (depth)	<u>—</u>	T-Off Location <u>0800</u>
(G) Final Shut-in Pressure	<u>1544</u>	<u>1577</u>	PSI Initial Opening	<u>30</u>	Test <u>700</u> <u>✓</u>
(Q) Final Hydrostatic Mud	<u>2166</u>	<u>2112</u>	PSI Initial Shut-in	<u>60</u>	Jars <u>200</u> <u>✓</u>
			Final Flow	<u>60</u>	Safety Joint <u>60</u> <u>✓</u>
			Final Shut-in	<u>240</u>	Straddle <u>—</u>
					Circ. Sub <u>—</u>
					Sampler <u>—</u>
					Extra Packer <u>—</u>
					Elec. Rec. <u>150</u> <u>✓</u>
					Mileage <u>—</u>
					Other <u>Hubby 3 030=</u>
					TOTAL PRICE \$ <u>1190</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
 Our Representative Darren L. Marino



GAS VOLUME REPORT

Woolsey & Co., Corp.
OPERATOR

VOLUME REPORT
Bell #A-2

WELL NAME AND NO.

#3
DST NO

6TS in 8 mins on Final Flow.

Remarks:

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl.Corp.

DATE 11-23-99

WELL NAME: Bell A-2

KB 1723.00 ft

TICKET NO: 12394 DST #4

LOCATION : 29-33s-13w Barber co KS

GR 1714.00 ft

FORMATION: Lans G

INTERVAL : 4374.00 To 4397.00 ft

TD 4397.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0500 to 0530 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0530 to 0630 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0630 to 0730 hr
FS 240 Depth(ft)	4394.0	4394.0	4380.0	0.0	0.0	FS Fr. 0730 to 1130 hr

	Field	1	2	3	4	
A. Init Hydro	2129.0	2130.0	2141.0	0.0	0.0	T STARTED 0232 hr
B. First Flow	73.0	85.0	87.0	0.0	0.0	T ON BOTM 0515 hr
B1. Final Flow	137.0	139.0	140.0	0.0	0.0	T OPEN 0530 hr
C. In Shut-in	1681.0	1674.0	1676.0	0.0	0.0	T PULLED 1134 hr
D. Init Flow	144.0	139.0	141.0	0.0	0.0	T OUT 1405 hr
E. Final Flow	232.0	231.0	233.0	0.0	0.0	
F. Fl Shut-in	1670.0	1674.0	1681.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2107.0	2102.0	2055.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 82000.00 lbs
						Initial Str Wt 56000.00 lbs
						Unseated Str Wt 58000.00 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 4380.00 ft

RECOVERY

Tot Fluid 440.00 ft of 0.00 ft in DC and 440.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 90.00 ft of Watery mud 20% water 80% mud
 350.00 ft of Salt water.
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw .068 ohms @ 58 degrees F.
 0.00 ft of EST.FT. of PAY-----6
 SALINITY 150000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in 20
 secs. gas to surface in 22 mins.
 Initial Shut-in:
 Very weak blow.
 Final Flow:
 Strong blow
 Final Shut-in:
 Weak blow 1 - 2 1/2"

SAMPLES: Gas sample
 SENT TO: Caraway/Liberal

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/
Vis.	52.00 S/I
W.L.	8.00 in
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	good
% Porosity	12.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Mike Maune
Contr.	Duke Drlg.
Rig #	4
Unit #	
Pump T.	LCM 2 #/bl

GAS RECOVERY

COMPANY: Woolsey Petl. Corp. DATE: 11-23-99
WELL NAME: Bell A-2 KB Elev: 1723.00 ft TICKET #12394 DST #4
WELL LOCATION: 29-33s-13w Barber co KS GR Elev: 1714.00 ft FORMATION: Lans G
INTERVAL Fr.: 4374.00 To 4397.00 T.D.: 4397.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
30	0.25	0	86	26020.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.25	13	0	40600.0
10	0.25	16	0	45100.0
15	0.25	17	0	46500.0
20	0.25	18	0	48000.0
25	0.25	18	0	48000.0
30	0.25	18	0	48000.0
35	0.25	18	0	48000.0
40	0.25	17	0	46500.0
45	0.25	17	0	46500.0
50	0.25	17	0	46500.0
55	0.25	16	0	45100.0
60	0.25	16	0	45100.0

WELL NAME: Bell A-2

TICKET No. 12394 D.S.T. No. 4 DATE 11-23-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 23

TOTAL TOOL 50

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
17	1	1	1
18	1	1	1
19	1	1	1
20	1	1	1
21	1	1	1
22	1	1	1
23	1	1	1
24	1	1	1
25	1	1	1
26	1	1	1
27	1	1	1
28	1	1	1
29	1	1	1
30	1	1	1
31	1	1	1
32	1	1	1
33	1	1	1
34	1	1	1
35	1	1	1
36	1	1	1
37	1	1	1
38	1	1	1
39	1	1	1
40	1	1	1
41	1	1	1
42	1	1	1
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87	1	1	1
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89	1	1	1
90	1	1	1
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
-------------------------	--------	-------

TOTAL ASSEMBLY 50

D.C. ABOVE TOOLS.Stands	Single	Total
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	1
13	1	1
14	1	1
15	1	1
16	1	1
17	1	1
18	1	1
19	1	1
20	1	1
21	1	1
22	1	1
23	1	1
24	1	1
25	1	1
26	1	1
27	1	1
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29	1	1
30	1	1
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85	1	1
86	1	1
87	1	1
88	1	1
89	1	1
90	1	1
91	1	1
92	1	1
93	1	1
94	1	1
95	1	1
96	1	1
97	1	1
98	1	1
99	1	1
100	1	1

D.P. ABOVE TOOLS.Stands70 Single 1 Total 4380

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4430

TOTAL DEPTH 4397

TOTAL DRILL PIPE ABOVE K.B. 33

REMARKS:

Comments: Fax reports to Woolsey Petl.

FLUID SAMPLER DATA (not run)

GAS-----	cubic ft
OIL-----	ML.
MUD-----	ML.
WATER-----	ML.
OTHER-----	
PRESSURE-----	PSI
Rw ----- ohms @	deg. F.
CHLORIDES-----	ppm.
GRAVITY-----	deg.API

P.O. SUB		
C.O. SUB	@ top of tool	4347
S.I. TOOL	Sterling	4353
HMV	Sterling	4358
JARS	Bowen	4363
SAFETY JOINT	bowen	4365
PACKER	Top	4369
PACKER	Btm.	4374
DEPTH	4374	
STUBB	1 ft.	4375
ANCHOR		
perfs		
Alpine rec.	@ 4380	
T.C.		
DEPTH		
17'	perfs to	4392
AK-1 rec.	@ 4394	
BULLNOSE	5 ft. perforated	4397
T.D.		

12394 DST#4 BELL A-2 WOOLSEY PETL. CORP.

TEST HISTORY

Flag Points
t(min.) P(PSI)

Rt	0.00	2141.25
Bt	0.00	87.45
Ct	30.75	139.82
Dt	63.00	1675.79
Et	0.00	141.33
Ft	59.25	233.40
Ct	241.50	1681.19
Qt	0.00	2055.48

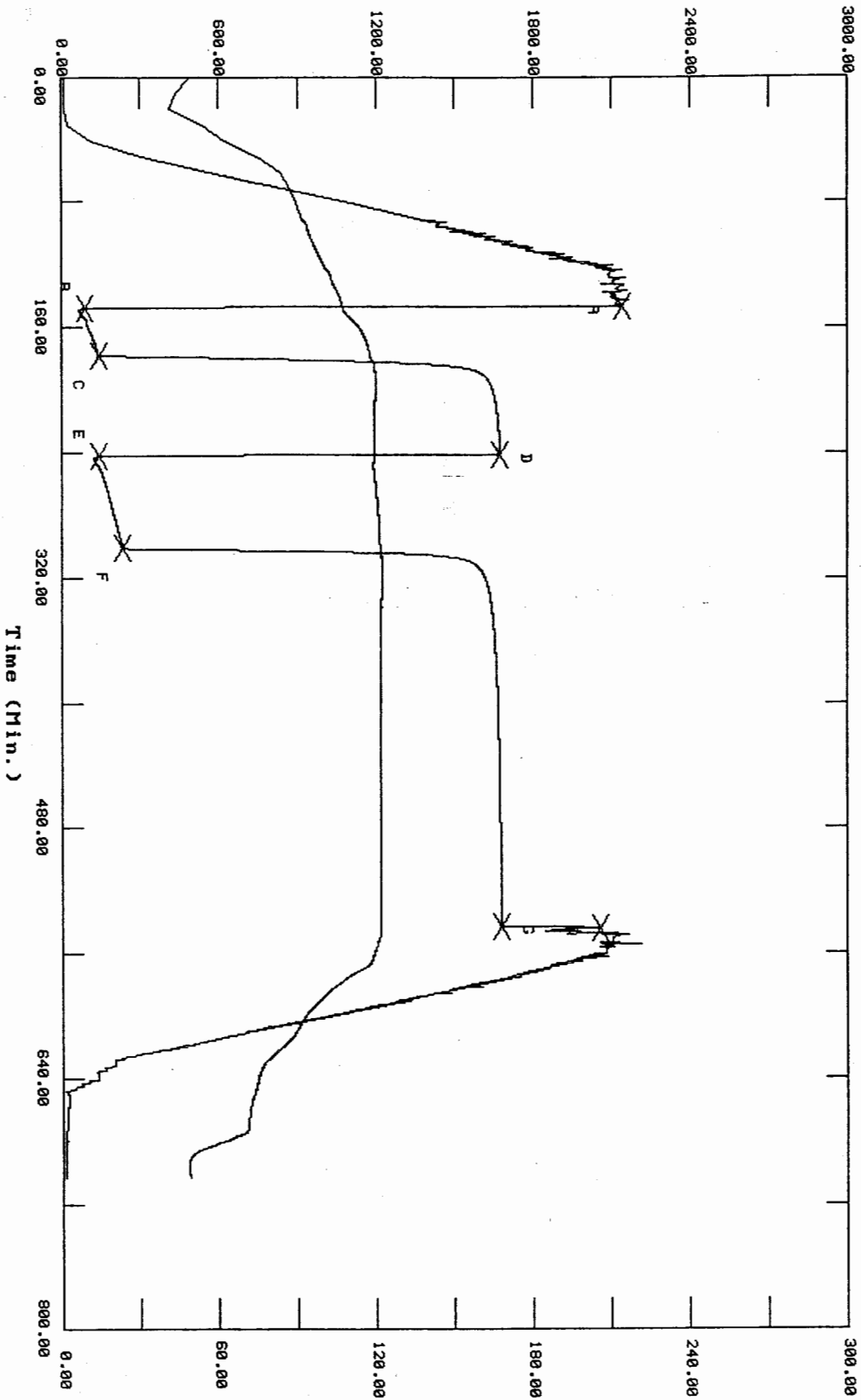
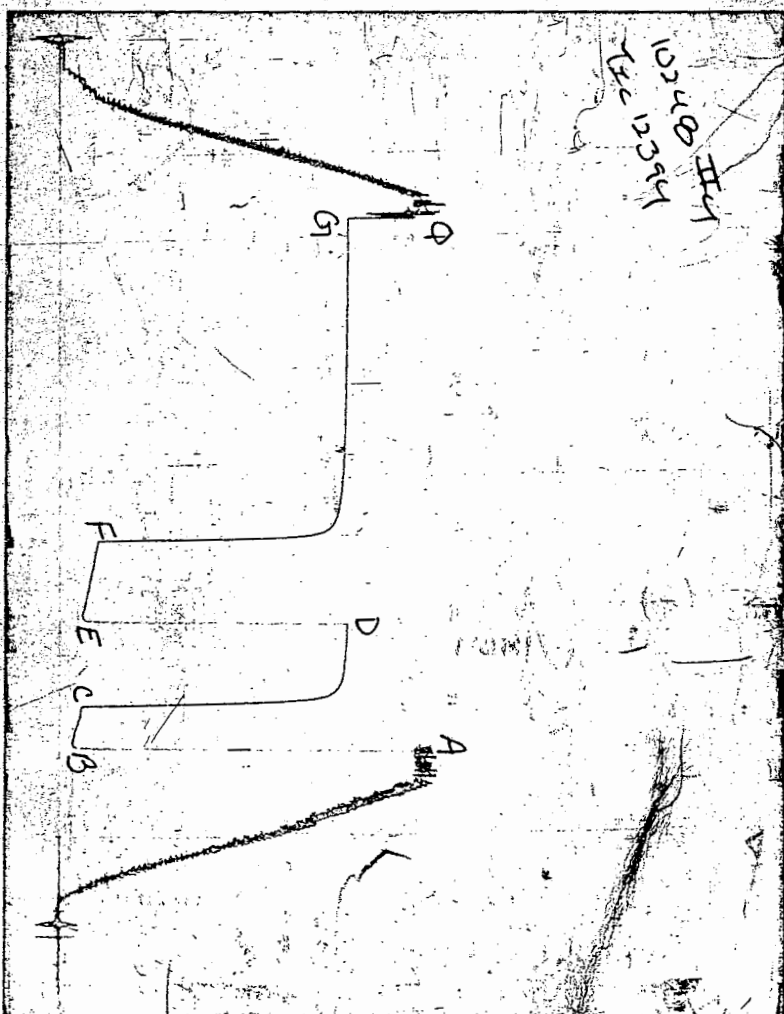


CHART PAGE



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

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

GAS VOLUME REPORT

Wardsey Path Corp.
OPERATOR

Ball A-2

WELL NAME AND NO.

DST NO.

INITIAL OPEN

FINAL OPEN

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 12394

Test Ticket

Well Name & No.	<u>Bell A-2</u>	Test No.	<u>4</u>	Date	<u>11-23-99</u>
Company	<u>Wholesale Petrol Corp.</u>	Zone Tested	<u>Lans "6"</u>		
Address	<u>125 N. MARKET ST. 1000, WICHITA KS. 67202</u>	Elevation	<u>1723</u>	KB	<u>1714</u> GL
Co. Rep / Geo.	<u>MIKE MAUNE</u>	Cont.	<u>DICK DAIG #4</u>	Est. Ft. of Pay	<u>6</u> Por. <u> </u> %
Location: Sec.	<u>29</u>	Twp.	<u>33S</u>	Rge.	<u>13W</u> Co. <u>Barber</u> State <u>Ks.</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>4324' - 4397'</u>	Initial Str Wt./Lbs.	<u>56,000</u>	Unseated Str Wt./Lbs.	<u>58,000</u>
Anchor Length	<u>23'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>82,000</u>
Top Packer Depth	<u>4369'</u>	Tool Weight	<u>2100 #</u>		
Bottom Packer Depth	<u>4374'</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>4397'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>None</u>
Mud Wt.	<u>9.0</u> LCM <u>2#</u> Vis. <u>5.2</u> WL <u>8.0 cc.</u>	Drill Pipe Size	<u>4 1/2" X 4.4</u>	Ft. Run	<u>4380</u>
Blow Description	<u>IF: Strong blow, B.O.B. in 20 sec. GTS in 22 mins. (see gas volume report) ISI: Very weak blow, FF: Strong blow, (see gas volume report) FSI: Weak blow, (1-2 1/2")</u>				

Recovery — Total Feet	<u>440</u>	GIP	<u>yes</u>	Ft. in DC	<u> </u>	Ft. in DP	<u> </u>
Rec.	<u>90</u>	Feet Of	<u>W.M.</u>	%gas	<u> </u>	%oil	<u>20</u>
Rec.	<u>350</u>	Feet Of	<u>Salt Water</u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
BHT	<u>122</u>	°F Gravity	<u>N/A</u>	°API D@	<u> </u>	°F Corrected Gravity	<u>N/A</u>
RW	<u>.068 @</u>	°F	<u>58</u>	Chlorides	<u>150,000</u>	ppm Recovery	<u> </u>
				Chlorides	<u>7,000</u>	ppm System	<u> </u>

(A) Initial Hydrostatic Mud	<u>2129</u>	AK-1	<u>2141</u>	Alpine	<u>2342</u>	PSI Recorder No.	<u>2342</u>	T-On Location	<u>0140</u>
(B) First Initial Flow Pressure	<u>73</u>		<u>87</u>		<u>4380'</u>	PSI (depth)	<u>4380'</u>	T-Started	<u>0232</u>
(C) First Final Flow Pressure	<u>137</u>		<u>140</u>		<u>10248</u>	PSI Recorder No.	<u>10248</u>	T-Open	<u>0500</u>
(D) Initial Shut-In Pressure	<u>1481</u>		<u>1476</u>		<u>4394'</u>	PSI (depth)	<u>4394'</u>	T-Pulled	<u>1134</u>
(E) Second Initial Flow Pressure	<u>144</u>		<u>141</u>		<u> </u>	PSI Recorder No.	<u> </u>	T-Out	<u>1405</u>
(F) Second Final Flow Pressure	<u>232</u>		<u>233</u>		<u> </u>	PSI (depth)	<u> </u>	T-Off Location	<u>1450</u>
(G) Final Shut-in Pressure	<u>1470</u>		<u>1481</u>		<u>30</u>	PSI Initial Opening	<u>30</u>	Test	<u>✓ 700</u>
(Q) Final Hydrostatic Mud	<u>2107</u>		<u>2055</u>		<u>60</u>	PSI Initial Shut-in	<u>60</u>	Jars	<u>✓ 200</u>
					<u>60</u>	Final Flow	<u>60</u>	Safety Joint	<u>✓ 50</u>
					<u>240</u>	Final Shut-in	<u>240</u>	Straddle	<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

Our Representative Conny Pustear

Extra Packer
Elec. Rec. ✓ 150
Mileage
Other Time ✓ 4 @ 30 = 12
TOTAL PRICE \$ ✓ 1220

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl.Corp.

DATE 11-24-99

WELL NAME: Bell A-2

KB 1723.00 ft

TICKET NO: 12395

DST #5

LOCATION : 29-33s-13w Barber co KS

GR 1714.00 ft

FORMATION: Lans I

INTERVAL : 4476.00 To 4490.00 ft

TD 4490.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0918 to 0948 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0948 to 1048 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1048 to 1148 hr
FS 240 Depth(ft)	4487.0	4487.0	4482.0	0.0	0.0	FS Fr. 1148 to 1154 hr

	Field	1	2	3	4	
A. Init Hydro	2182.0	2177.0	2216.0	0.0	0.0	T STARTED 0701 hr
B. First Flow	37.0	44.0	40.0	0.0	0.0	T ON BOTM 0910 hr
Bl. Final Flow	34.0	44.0	60.0	0.0	0.0	T OPEN 0918 hr
C. In Shut-in	1734.0	1730.0	1765.0	0.0	0.0	T PULLED 1550 hr
D. Init Flow	34.0	44.0	68.0	0.0	0.0	T OUT 1800 hr
E. Final Flow	28.0	20.0	44.0	0.0	0.0	
F. Fl Shut-in	1736.0	1730.0	1767.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2151.0	2148.0	2131.0	0.0	0.0	Tool Wt. 2100.00 lb
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lb
						Wt Pulled Loose 65000.00 lb
						Initial Str Wt 56000.00 lb
						Unseated Str Wt 58000.00 lb
						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 4474.00 ft

RECOVERY

Tot Fluid 45.00 ft of 0.00 ft in DC and 45.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 45.00 ft of Water mud 26% water 74% 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 Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----6
 SALINITY 7000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in
 5-10 secs. gas to surface in 8.5 mins
 Initial Shut-in:
 No blow.
 Final Flow:
 Strong blow
 Final Shut-in:
 No blow

SAMPLES: Gas sample
 SENT TO:Caraway/Liberal

Test Successful: Y

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb
 Vis. 52.00 S/
 W.L. 10.00 in
 F.C. 0.20 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 113.00 F
 Hole Condition good
 % Porosity 12.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 N
 Cushion Type None
 Reversed Out N
 Tool Chased N
 Tester Gary Pevoteaux
 Co. Rep. Mike Maune
 Contr. Duke Drlg.
 Rig # 4
 Unit #
 Pump T. LCM 2 #/bl

GAS RECOVERY

COMPANY: Woolsey Petl. Corp.

DATE: 11-24-99

WELL NAME: Bell A-2

KB Elev: 1723.00 ft TICKET #12395 DST #5

WELL LOCATION: 29-33s-13w Barber co KS

GR Elev: 1714.00 ft FORMATION: Lans I

INTERVAL Fr.: 4476.00 To 4490.00 T.D.: 4490.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
20	0.50	0	48	92370.0
25	0.50	0	48	92370.0
30	0.50	0	48	92370.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.50	8	0	127751.0
10	0.50	6	0	113625.0
15	0.50	0	82	99240.0
20	0.50	0	62	89634.0
25	0.50	0	56	94141.0
30	0.50	0	54	93599.0
35	0.50	0	54	93599.0
40	0.50	0	54	93599.0
45	0.50	0	54	93599.0
50	0.50	0	54	93599.0
55	0.50	0	54	93599.0
60	0.50	0	54	93599.0

P.O.	SUB	
C.O.	SUB @ top of tool	4449
S.I.	TOOL Sterling	4455
HMV	Sterling	4460
JARS	Bowen	4465
SAFETY JOINT	bowl	4467
PACKER Top		4471
PACKER Btm.		4476
DEPTH	4476	
STUBB 1 ft.		4477
ANCHOR		
perfs		
Alpine rec.	@ 4482	
T.C.		
DEPTH		
8' perfs to		4485
AK-1 rec.	@ 4487	
BULLNOSE 5 ft.	perforated	4490
T.D.		

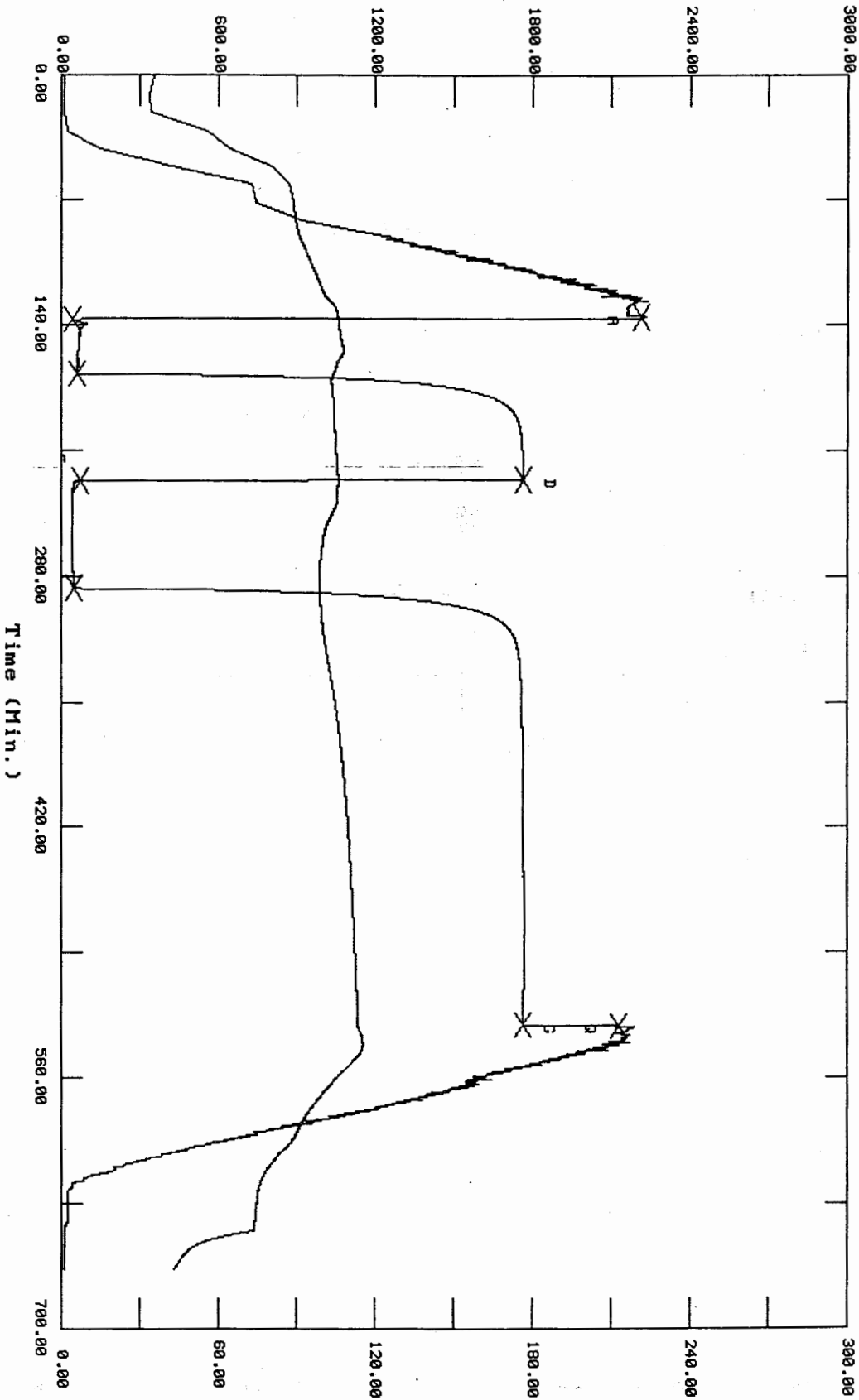
GAS-----	cubic ft
OIL-----	ML.
MUD-----	ML.
WATER-----	ML.
OTHER-----	
PRESSURE-----	PSI
Rw -----	ohms @ deg. F.
CHLORIDES-----	ppm.
GRAVITY-----	deg.API

TEST HISTORY

12395 DST#5 BELL A-2 WOOLSEY PETL. CORP.

Flag Points

t (Min.)	P (PSI)
A: 0.00	2215.86
B: 0.00	39.78
C: 30.25	80.26
D: 59.00	1764.92
E: 0.00	68.40
F: 60.00	44.15
G: 243.75	1766.85
H: 0.00	2131.26



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 Pith Corp.
OPERATOR

Ball A-2

WELL NAME AND NO.

5
DST NO

INITIAL OPEN

FINAL OPEN

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
8.5	~	1/2"	GTS	5	8 PSI	1/2"	101
20	48" in H ₂ O	1/2"	43.4	10	5.5 PSI	1/2"	81.8
25	48" in H ₂ O	1/2"	43.4	15	82" in H ₂ O	1/2"	56.8
30	48" in H ₂ O	1/2"	43.4	20	62" in H ₂ O	1/2"	49.4
				25	52" in H ₂ O	1/2"	46.9
				30	54" in H ₂ O	1/2"	46.1
				35	54" in H ₂ O	1/2"	46.1
				40	54" in H ₂ O	1/2"	46.1
				45	54" in H ₂ O	1/2"	46.1
				50	54" in H ₂ O	1/2"	46.1
				55	54" in H ₂ O	1/2"	46.1
				60	54" in H ₂ O	1/2"	46.1

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 12395

Test Ticket

Well Name & No.	<u>Bell A-2</u>	Test No.	<u>5</u>	Date	<u>11-24-99</u>
Company	<u>Woolsey Pith Corp.</u>	Zone Tested	<u>Lans I</u>		
Address	<u>125 N. Market Ste. 1000, Wichita, Ks. 67202</u>				
Elevation	<u>1723</u>	KB	<u>1714</u>	GL	
Co. Rep / Geo.	<u>Mike Maune</u>	Cont.	<u>Duke Dalg.</u>	Est. Ft. of Pay	<u>6</u> Por. <u> </u> %
Location: Sec.	<u>29</u>	Twp.	<u>33S</u>	Rge.	<u>13W</u>
Co.	<u>Barber</u>	State	<u>Ks.</u>		
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u> </u>
Evaluation (Y, N)	<u> </u>				

Interval Tested	<u>4476 - 4490'</u>	Initial Str Wt./Lbs.	<u>56,000</u>	Unseated Str Wt./Lbs.	<u>58,000</u>
Anchor Length	<u>14'</u>	Wt. Set Lbs.	<u>20,000[#]</u>	Wt. Pulled Loose/Lbs.	<u>65,000</u>
Top Packer Depth	<u>4471'</u>	Tool Weight	<u>2,100[#]</u>		
Bottom Packer Depth	<u>4476'</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>4490'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>None</u>
Mud Wt.	<u>9.1</u> LCM <u>2[#]</u> Vis. <u>52</u> WL <u>10.0 cc</u>	Drill Pipe Size	<u>4 1/2" X 4</u>	Ft. Run	<u>4474'</u>
Blow Description	<u>IF: Strong blow, B.O.B. in 5-10 sec. GTS in 8.5 mins. (see gas volume report) ISI: No blow.</u>				
	<u>FF: Strong blow. (see gas volume report) FSI: No blow.</u>				

Recovery — Total Feet	<u>45</u>	GIP	<u>yes</u>	Ft. in DC	<u> </u>	Ft. in DP	<u>45</u>
Rec.	<u>45</u>	Feet Of	<u>W.M. 26% and 74% M</u>	%gas	<u> </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>
Rec.		Feet Of		%gas	<u> </u>	%oil	<u> </u>
BHT	<u>113</u>	°F Gravity	<u>N/A</u>	°API D@	<u> </u>	°F Corrected Gravity	<u>N/A</u>
RW	<u>N/C</u>	@	<u> </u>	°F Chlorides	<u>2,000</u>	ppm Recovery	<u> </u>
				Chlorides	<u>7,000</u>	ppm System	<u> </u>

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>2182</u>	<u>2216</u>	PSI Recorder No.	<u>2342</u>	T-On Location	<u>0615</u>
(B) First Initial Flow Pressure	<u>37</u>	<u>40</u>	PSI (depth)	<u>4482'</u>	T-Started	<u>0701</u>
(C) First Final Flow Pressure	<u>34</u>	<u>60</u>	PSI Recorder No.	<u>10248</u>	T-Open	<u>0918</u>
(D) Initial Shut-in Pressure	<u>1734</u>	<u>1763</u>	PSI (depth)	<u>4487'</u>	T-Pulled	<u>1550'</u>
(E) Second Initial Flow Pressure	<u>34</u>	<u>68</u>	PSI Recorder No.	<u> </u>	T-Out	<u>1800</u>
(F) Second Final Flow Pressure	<u>28</u>	<u>44</u>	PSI (depth)	<u> </u>	T-Off Location	<u>1840</u>
(G) Final Shut-in Pressure	<u>1736</u>	<u>1767</u>	PSI Initial Opening	<u>30</u>	Test	<u>✓ 700°</u>
(Q) Final Hydrostatic Mud	<u>2151</u>	<u>2131</u>	PSI Initial Shut-in	<u>60</u>	Jars	<u>✓ 200°</u>
			Final Flow	<u>60</u>	Safety Joint	<u>✓ 50°</u>
			Final Shut-in	<u>240</u>	Straddle	<u> </u>
				<u>7</u>	Circ. Sub	<u> </u>
					Sampler	<u> </u>
					Extra Packer	<u> </u>
					Elec. Rec.	<u>✓ 150°</u>
					Mileage	<u> </u>
					Other Time	<u>✓ 40 30 120</u>
					TOTAL PRICE	<u>✓ 1220</u>

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Approved By Michael K. Maune
Our Representative Constance

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl.Corp.

DATE 11-25-99

WELL NAME: Bell A-2

KB 1723.00 ft

TICKET NO: 12396

DST #6

LOCATION : 29-33s-13w Barber co KS

GR 1714.00 ft

FORMATION: Miss.

INTERVAL : 4642.00 To 4680.00 ft

TD 4680.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0005 to 0035 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0035 to 0135 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0135 to 0235 hr
FS 240 Depth(ft)	4677.0	4677.0	4654.0	0.0	0.0	FS Fr. 0235 to 0635 hr

	Field	1	2	3	4	
A. Init Hydro	2305.0	2318.0	2301.0	0.0	0.0	T STARTED 2121 hr
B. First Flow	16.0	19.0	42.0	0.0	0.0	T ON BOTM 0000 hr
Bl. Final Flow	14.0	10.0	26.0	0.0	0.0	T OPEN 0005 hr
C. In Shut-in	1001.0	981.0	1013.0	0.0	0.0	T PULLED 0639 hr
D. Init Flow	14.0	18.0	25.0	0.0	0.0	T OUT 0855 hr
E. Final Flow	14.0	18.0	29.0	0.0	0.0	
F. Fl Shut-in	1425.0	1438.0	1443.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2250.0	2249.0	2187.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 58000.00 lbs
						Unseated Str Wt 58000.00 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

RECOVERY

Tot Fluid 32.00 ft of 0.00 ft in DC and 32.00 ft in DP
 3900.00 ft of Gas in pipe.
 32.00 ft of Drilling 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 Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----12

SALINITY 7000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in
 1 1/2 mins.
 Initial Shut-in:
 No blow.
 Final Flow:
 Strong blow bottom of bucket in
 5 - 10 secs.
 Final Shut-in:
 No blow

SAMPLES: none

SENT TO: Caraway/Liberal

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	52.00 S/L
W.L.	8.80 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Mike Maune
Contr.	Duke Drlg.
Rig #	4
Unit #	
Pump T.	LCM 2 #/bl

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Bell A-2

LOCATION : 29-33s-13w Barber co KS

TICKET No. 12396 D.S.T. No. 6 DATE 11-25-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 38

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 65

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands74 Single 1 Total 4631

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4696

TOTAL DEPTH 4680

TOTAL DRILL PIPE ABOVE K.B. 16

REMARKS:

Comments:Fax reports to Woolsey Petl.

FLUID SAMPLER DATA (not run)

GAS----- cubic ft
OIL----- ML.
MUD----- ML.
WATER----- ML.
OTHER-----
PRESSURE----- PSI
Tw ----- ohms @ deg. F.
CHLORIDES----- ppm.
GRAVITY----- deg.API

P.O. SUB	
C.O. SUB @ top of tool	4615
S.I. TOOL Sterling	4621
HMV Sterling	4626
JARS Bowen	4631
SAFETY JOINT bowen	4633
PACKER Top	4637
PACKER Btm.	4642
DEPTH 4642	
STUBB 1 ft.	4643
ANCHOR	
perfs	
Alpine rec. @ 4654	
T.C.	
DEPTH	
32' perfs to	4675
AK-1 rec. @ 4677	
BULLNOSE 5 ft. perforated	4680
T.D.	

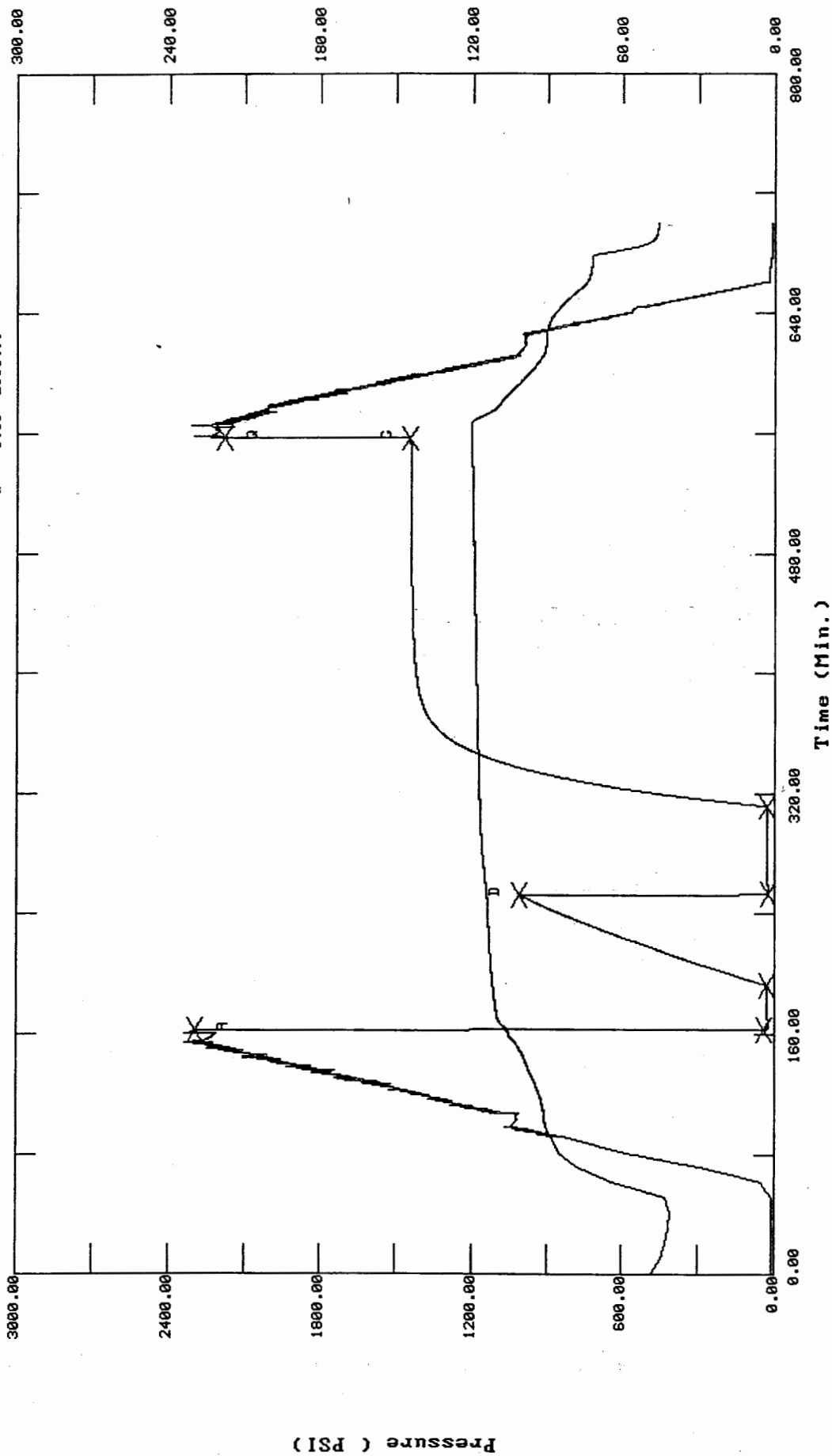
TEST HISTORY

12396 DST#6 BELL A-2 WOOLSEY PETL. CORP.

Flag Points

t (Min.) P (PSI)

A:	0.00	2301.30
B:	0.00	41.96
C:	29.25	26.44
D:	60.00	1013.26
E:	0.00	24.51
F:	58.75	29.21
G:	244.75	1442.64
Q:	0.00	2186.99



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 12396

Test Ticket

Well Name & No.	Bell A-2	Test No.	6	Date	11-25-99
Company	Wardley Peth Corp.	Zone Tested	Miss.		
Address	Wichita Ks. 67202	Elevation	1723	KB	1714 GL
Co. Rep / Geo.	Mike Maune	Cont.	Duke Dely	Est. Ft. of Pay	12 Por. %
Location: Sec.	29	Twp.	33S	Rge.	13W
No. of Copies	5	Distribution Sheet (Y, N)	N	Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	4642 - 4680'	Initial Str Wt./Lbs.	58,000	Unseated Str Wt./Lbs.	58,000
Anchor Length	38'	Wt. Set Lbs.	20,000	Wt. Pulled Loose/Lbs.	74,000
Top Packer Depth	4637'	Tool Weight	2,100		
Bottom Packer Depth	4642'	Hole Size — 7 7/8"	✓	Rubber Size — 6 3/4"	✓
Total Depth	4680'	Wt. Pipe Run	None	Drill Collar Run	None
Mud Wt.	9.2 LCM 2# Vis. 52 WL 8.8	Drill Pipe Size	4 1/2" x 4.4	Ft. Run	4631'
Blow Description	IF: Strong blow. B.O.B. in 1 1/2 mins.				
	ISI: No blow.				
	FF: Strong blow. B.O.B. in 5-10 sec. FSI: No blow.				

Recovery — Total Feet	32	Fluid GIP	3100 approx	Ft. in DC		Ft. in DP	32'
Rec.	32	Feet Of	Dry. Mud	%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	120	°F Gravity	N/A	°API D		°F Corrected Gravity	N/A
RW	N.C.	°F Chlorides	7,000	ppm Recovery		Chlorides	7,000 ppm System

(A) Initial Hydrostatic Mud	AK-1 2305	Alpine 2301	PSI	Recorder No.	2342	T-On Location	2045
(B) First Initial Flow Pressure	16	42	PSI	(depth)	4654'	T-Started	2121
(C) First Final Flow Pressure	14	26	PSI	Recorder No.	10248	T-Open	0005
(D) Initial Shut-In Pressure	1001	1013	PSI	(depth)	4677'	T-Pulled	0639
(E) Second Initial Flow Pressure	14	25	PSI	Recorder No.		T-Out	0855
(F) Second Final Flow Pressure	14	29	PSI	(depth)		T-Off Location	1110
(G) Final Shut-in Pressure	1425	1443	PSI	Initial Opening	30	Test	✓ 700
(Q) Final Hydrostatic Mud	2250	2187	PSI	Initial Shut-in	60	Jars	✓ 200
				Final Flow	60	Safety Joint	✓ 50
				Final Shut-in	240	Straddle	
						Circ. Sub	
						Sampler	
						Extra Packer	
						Elec. Rec.	✓ 150
						Mileage	
						Other Time	✓ 4 @ 30 = 120
						TOTAL PRICE \$	✓ 1220

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Approved By Michael K. Maune

Our Representative Greg [Signature]