

15-033-21161



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co Inc**

PO Box 2758
Wichita KS 67201-2758

ORIGINAL

ATTN: Roger Martin

35-31s-19w Comanche

WNSA

Burt Barnes #1-35

Start Date: 2000.11.23 @ 21:09:00

End Date: 2000.11.24 @ 03:58:00

CON

Job Ticket #: 13913

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

ORIGINAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mull Drilling Co Inc
PO Box 2758
Wichita KS 67201-2758

ATTN: Roger Martin

Burt Barnes #1-35

35-31s-19w Comanche

Job Ticket: 13913 **DST#: 1**

Test Start: 2000.11.23 @ 21:09:00

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:01:50

Time Test Ended: 03:58:00

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: **4775.00 ft (KB) To 4844.00 ft (KB) (TVD)**

Total Depth: **4844.00 ft (KB)**

Hole Diameter: **7.85 inches** Hole Condition: Fair

Reference Elevations: **2099.00 ft (KB)**

2088.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 3027 Inside

Press@RunDepth: **37.35 psig @ 4784.02 ft (KB)**

Start Date: **2000.11.23**

End Date:

2000.11.24

Start Time: **21:10:55**

End Time:

06:19:50

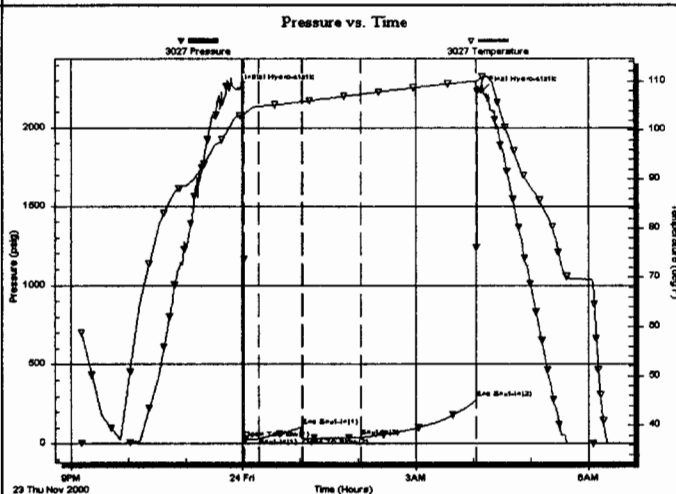
Capacity: **7000.00 psig**

Last Calib.: **2000.11.24**

Time On Btm: **2000.11.23 @ 23:55:50**

Time Off Btm: **2000.11.24 @ 04:09:49**

TEST COMMENT: times 15-45-60-120 150 GIP IFP-w eak to fair blow 1"to 3"
FFP-w eak blow throughout 1"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
165	2247.46	102.91	Initial Hydro-static
171	23.50	103.20	Open To Flow (1)
186	30.71	104.91	Shut-In(1)
231	102.86	105.85	End Shut-In(1)
232	30.25	105.87	Open To Flow (2)
292	37.35	107.39	Shut-In(2)
412	276.76	110.09	End Shut-In(2)
419	2232.78	110.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	mud w/show of oil	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co Inc

Burt Barnes #1-35

PO Box 2758
Wichita KS 67201-2758

35-31s-19w Comanche

Job Ticket: 13913

DST#: 1

ATTN: Roger Martin

Test Start: 2000.11.23 @ 21:09:00

Tool Information

Drill Pipe:	Length: 4655.00 ft	Diameter: 3.80 inches	Volume: 65.30 bbl	Tool Weight: 2800.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
Drill Pipe Above KB:	28.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	4770.00 ft			String Weight: Initial 69000.00 lb
Depth to Bottom Packer:	ft			Final 69000.00 lb
Interval between Packers:	ft			
Tool Length:	97.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

C.O. Sub	1.00			4748.00	
S.I. Tool	5.00			4753.00	
HYD S.I. Tool	5.00			4758.00	
Jars	5.00			4763.00	
Safety Joint	2.00			4765.00	
Packer	5.00			4770.00	23.00 Bottom Of Top Packer
Packer	5.00			4775.00	
Stubb	1.00			4776.00	
Anchor	4.00			4780.00	
Recorder	0.01	11085	Outside	4780.01	
Anchor	3.00			4783.01	
C.O. Sub	1.00			4784.01	
Recorder	0.01	3027	Inside	4784.02	
Blank Spacing	31.00			4815.02	
C.O. Sub	1.00			4816.02	
Anchor	25.00			4841.02	
Bullnose	3.00			4844.02	74.02 Bottom Packers & Anchor
Total Tool Length:	97.02				

Serial #: 3027

Inside

Multi Drilling Co Inc

35-315-19w Comanche

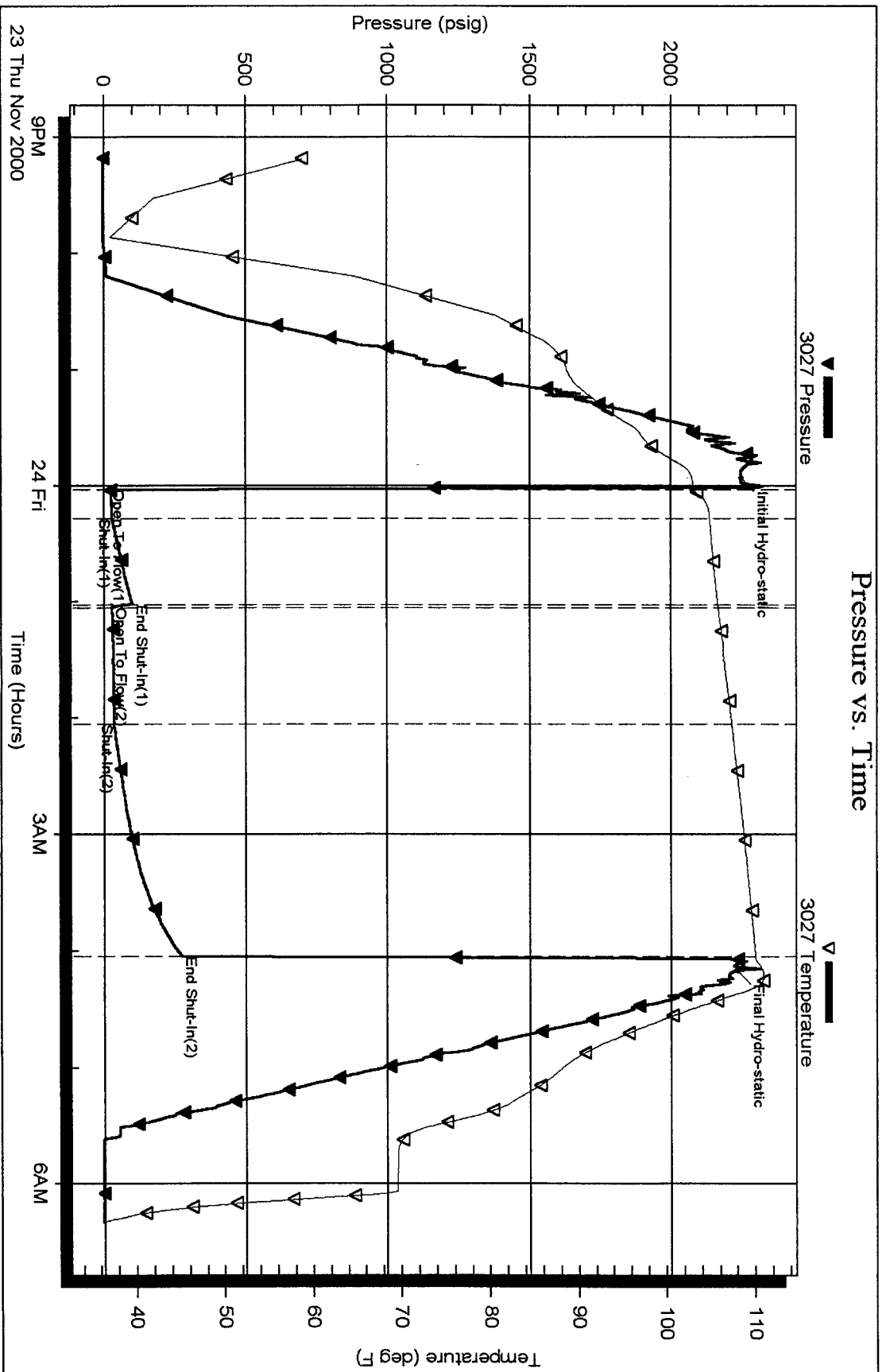
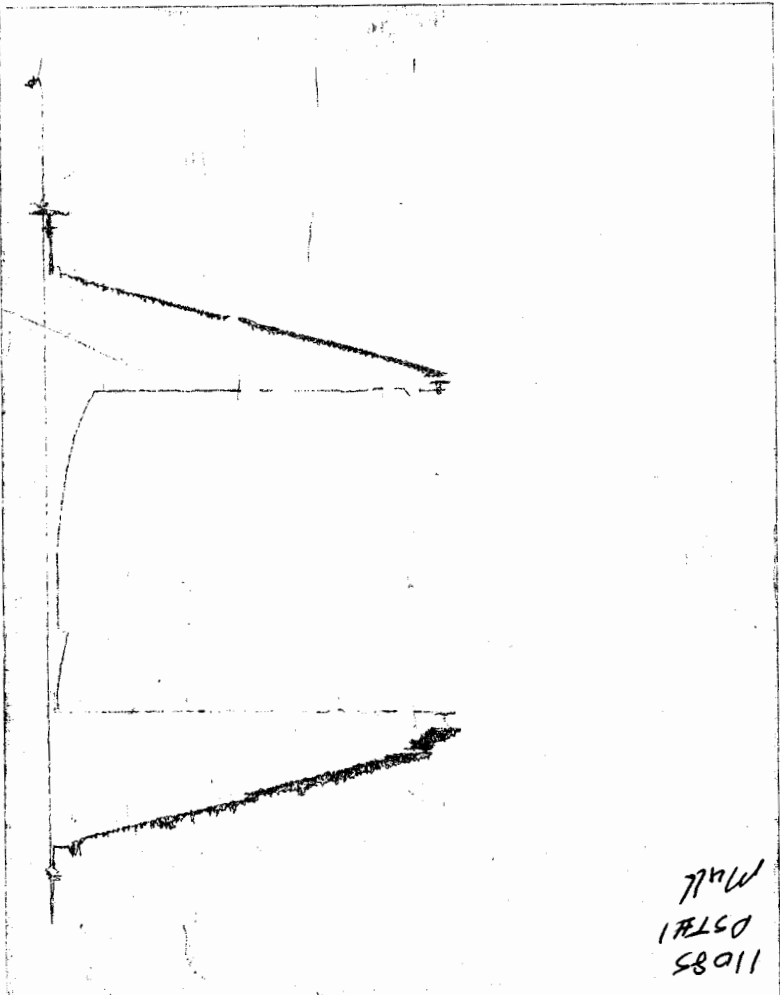


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13913

Test Ticket

Well Name & No.	<u>BURT BARNES #1-35</u>		Test No.	<u>1</u>	Date	<u>11-23-00</u>	
Company	<u>MULL DRILLING COMPANY, INC</u>		Zone Tested	<u>HERTHA</u>			
Address	<u>P.O. Box 2758 WICHITA, Ks. 67201-2758</u>		Elevation	<u>2099</u>	KB	<u>2068</u>	GL
Co. Rep / Geo.	<u>ROGER MARTIN</u>	Cont.	<u>DUKE 195</u>	Est. Ft. of Pay	Por.	%	
Location: Sec.	<u>35</u>	Twp.	<u>31^s</u>	Rge.	<u>19^w</u>	Co.	<u>COMANCHE</u> State <u>Ks</u>
No. of Copies	<u>Reg</u>	Distribution Sheet (Y, N)		Turnkey (Y, N)		Evaluation (Y, N)	

Interval Tested	<u>4775-4844</u>	Initial Str Wt./Lbs.	<u>69000</u>	Unseated Str Wt./Lbs.	<u>69000</u>
Anchor Length	<u>69</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>75000</u>
Top Packer Depth	<u>4770</u>	Tool Weight	<u>2800</u>		
Bottom Packer Depth	<u>4775</u>	Hole Size — 7 7/8"	<u>yes</u>	Rubber Size — 6 3/4"	<u>yes</u>
Total Depth	<u>4844</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>120</u>
Mud Wt.	<u>9.1</u> LCM <u>2#</u> Vis. <u>51</u> WL <u>10</u>	Drill Pipe Size	<u>4 1/2 X H</u>	Ft. Run	<u>4655</u>
Blow Description	<u>IFP - WEAK TO A FAIR BLOW 1" TO 3" BLOW</u> <u>FFP - WEAK BLOW 1" BLOW</u>				

Recovery — Total Feet	<u>30</u>	GIP	<u>150</u>	Ft. in DC	<u>30</u>	Ft. in DP	<u>—</u>
Rec.	<u>30</u>	Feet Of	<u>Mud</u>	%gas	%oil	%water	%mud
Rec.		Feet Of	<u>w/show of oil</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
BHT	<u>110</u>	°F Gravity	<u>—</u>	°API D@	<u>—</u>	°F Corrected Gravity	<u>—</u> °API
RW	<u>—</u>	@	<u>—</u>	°F Chlorides	<u>—</u>	ppm Recovery	Chlorides <u>4000</u> ppm System

(A) Initial Hydrostatic Mud	<u>2252</u>	AK-1	<u>2247</u>	Alpine	PSI	Recorder No.	<u>3027</u>	T-On Location	<u>2000</u>
(B) First Initial Flow Pressure	<u>44</u>		<u>23</u>		PSI	(depth)	<u>4784</u>	T-Started	<u>2109</u>
(C) First Final Flow Pressure	<u>44</u>		<u>31</u>		PSI	Recorder No.	<u>11085</u>	T-Open	<u>2358</u>
(D) Initial Shut-In Pressure	<u>110</u>		<u>103</u>		PSI	(depth)	<u>4780</u>	T-Pulled	<u>0358</u>
(E) Second Initial Flow Pressure	<u>55</u>		<u>30</u>		PSI	Recorder No.	<u>—</u>	T-Out	<u>0617</u>
(F) Second Final Flow Pressure	<u>55</u>		<u>37</u>		PSI	(depth)	<u>—</u>	T-Off Location	<u>0700</u>
(G) Final Shut-in Pressure	<u>264</u>		<u>277</u>		PSI	Initial Opening	<u>15</u>	Test	☒
(Q) Final Hydrostatic Mud	<u>2230</u>		<u>2233</u>		PSI	Initial Shut-in	<u>45</u>	Jars	☒
						Final Flow	<u>60</u>	Safety Joint	☒
						Final Shut-in	<u>120</u>	Straddle	

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 Roger L. Martin

Our Representative RAY SCHWAGER Thank You

Extra Packer _____
Elec. Rec. ☒ _____
Mileage ✓60 _____
Other _____
TOTAL PRICE \$ ✓

TRILOBITE TESTING L.L.C.

OPERATOR : Mull Drilling Co.

DATE 11-25-00

WELL NAME: Burt Barnes "1-35"

KB 2099.00 ft

TICKET NO: 13605

DST #2

LOCATION : 35-31S-19W Comanche co KS

GR 2088.00 ft

FORMATION: Marmaton/Miss.

INTERVAL : 4920.00 To 5195.00 ft

TD 5195.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10242	10242	Alpine			PF Fr. 2235 to 2250 hr
SI 45 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 2250 to 2335 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 2335 to 0035 hr
FS 120 Depth(ft)	5192.0	5192.0	4922.0	0.0	0.0	FS Fr. 0035 to 0235 hr

	Field	1	2	3	4	
A. Init Hydro	2456.0	0.0	2303.0	0.0	0.0	T STARTED 2030 hr
B. First Flow	186.0	0.0	31.0	0.0	0.0	T ON BOTM 2232 hr
B1. Final Flow	186.0	0.0	39.0	0.0	0.0	T OPEN 2235 hr
C. In Shut-in	513.0	0.0	432.0	0.0	0.0	T PULLED 0235 hr
D. Init Flow	189.0	0.0	39.0	0.0	0.0	T OUT 0520 hr
E. Final Flow	189.0	0.0	54.0	0.0	0.0	
F. Fl Shut-in	899.0	0.0	810.0	0.0	0.0	
G. Final Hydro	2407.0	0.0	2286.0	0.0	0.0	TOOL DATA-----
Inside/Outside	I	I	I			Tool Wt. 5800.00 lbs
						Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 5000.00 lbs
						Initial Str Wt 75000.00 lbs
						Unseated Str Wt 75000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 122.00 ft
						D.P. Length 4776.00 ft

RECOVERY

Tot Fluid 70.00 ft of 70.00 ft in DC and 0.00 ft in DP
 70.00 ft of Mud 100%M
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:
 Weak 1" built to 4 1/4" in bucket in
 15 minutes

Initial Shutin:

No blow back

Final Flow:

Fair 3 1/2" built to 9 1/2" in bucket
 in 60 minutes

Final Shutin:

No blow back

SAMPLES: None

SENT TO:

MUD DATA-----

Mud Type	Chem.
Weight	9.00 lb/c
Vis.	55.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Roger Martin
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Burt Barnes "1-35"

LOCATION : 35-31S-19W Comanche co KS

TICKET No. 13605 D.S.T. No. 2 DATE 11-25-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 27

TOTAL TOOL	54
------------------	----

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands	Single	Total
-------------------------	--------	-------

D.P. ANCHOR STND.Stands	4 Single	Total 248
-------------------------	----------	-----------

TOTAL ASSEMBLY 302

D.C. ABOVE TOOLS.Stands	2 Single	Total 122
-------------------------	----------	-----------

D.P. ABOVE TOOLS.Stands 77 Single Total 4776

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5200

TOTAL DEPTH 5195

TOTAL DRILL PIPE ABOVE K.B. 5

REMARKS :

API #15-033-21161

[illegible]

TEST HISTORY 13605 D.S.T.#2 Burt Barnes "1-35" Mull Drilling

Flag Points

t(Min.)	P(PSig)
A: 0.00	2303.14
B: 0.00	31.35
C: 16.25	39.70
D: 45.50	432.71
E: 0.00	39.58
F: 60.25	54.20
G: 122.75	810.35
Q: 0.00	2286.77

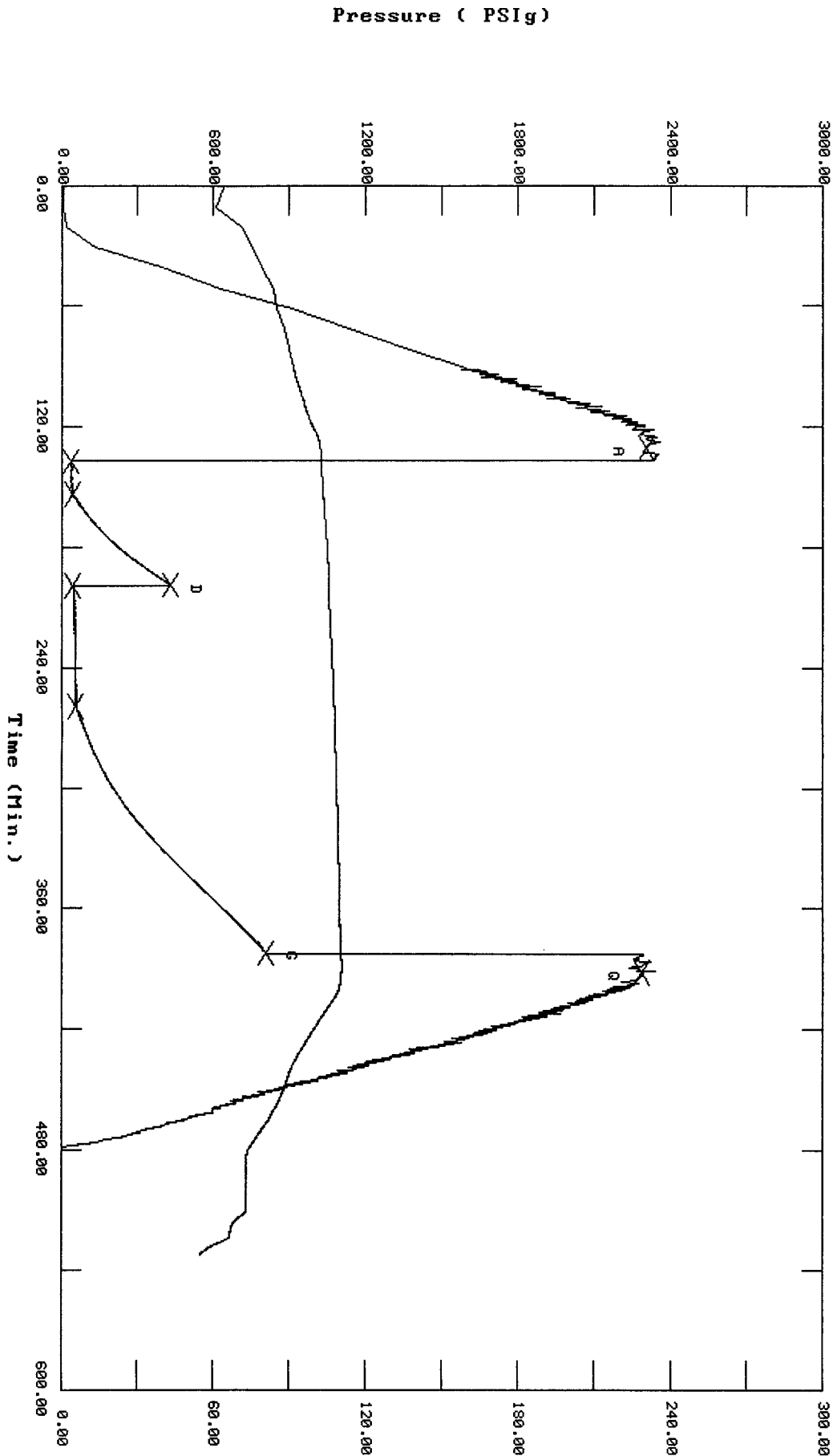
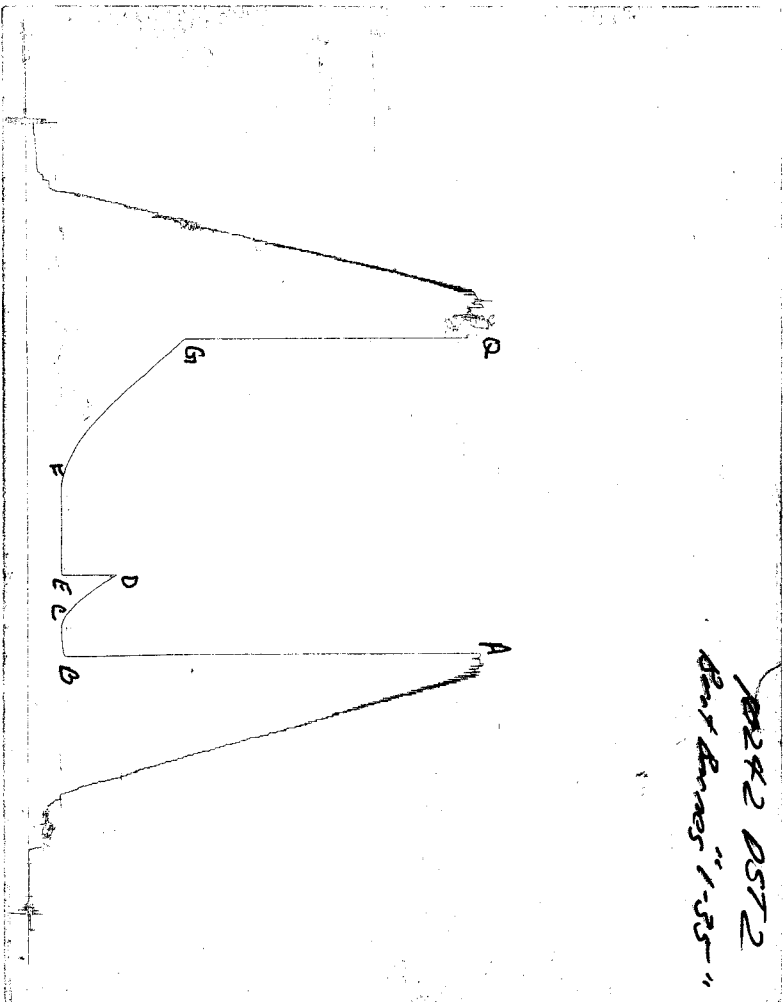


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13605

Test Ticket

API # 15-033-21161

Well Name & No. <u>Buck Barnes "1-35"</u>	Test No. <u>2</u>	Date <u>11-25-00</u>
Company <u>Mull Drilling Co.</u>	Zone Tested <u>main / Miss.</u>	
Address <u>Wichita KS 67201</u>	Elevation <u>2099</u>	KB <u>2088</u> GL
Co. Rep / Geo. <u>Roger Martin</u>	Cont. <u>Duke Rig 5</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>35</u>	Twp. <u>31S</u>	Rge. <u>19W</u> Co. <u>Comanche</u> State <u>KS</u>
No. of Copies <u>See</u> Distribution Sheet (Y, N) <u>Y</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>4920-5195</u>	Initial Str Wt./Lbs. <u>75,000</u>	Unseated Str Wt./Lbs. <u>25,000</u>
Anchor Length <u>275'</u> <u>Tail = 27'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>5,000</u>
Top Packer Depth <u>4915</u>	Tool Weight <u>5,800</u>	
Bottom Packer Depth <u>4920</u>	Hole Size — 7 7/8" <u> </u>	Rubber Size — 6 3/4" <u> </u>
Total Depth <u>5195</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>122</u>
Mud Wt. <u>9.0</u> LCM <u>2#</u> Vis. <u>55</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 xH</u>	Ft. Run <u>4776</u> <u>5'40</u>
Blow Description <u>Work 1" built to 4 1/4" in bucket 15 min. T.F.P.</u>		
<u>No blow-backs T.S.T.P.</u>		
<u>Exc 3 1/2" built to 9 1/2" in bucket 60 min. F.F.P.</u>		
<u>No blow-backs F.S.T.P.</u>		

Recovery — Total Feet <u>70</u>	GIP <u>0</u>	Ft. in DC <u>70</u>	Ft. in DP <u>0</u>
Rec. <u>70</u>	Feet Of <u>Mud</u>	%gas <u> </u> %oil <u> </u> %water <u>100</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>	
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
BHT <u>110</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	Chlorides <u>5,000</u> ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>2456</u>	<u>2303</u>	PSI Recorder No. <u>3017</u> <u>"20:15"</u>	T-On Location <u>4:15 PM</u> <u>16:15</u>
(B) First Initial Flow Pressure	<u>186</u>	<u>31</u>	PSI (depth) <u>4922</u>	T-Started <u>8:30 PM</u>
(C) First Final Flow Pressure	<u>186</u>	<u>39</u>	PSI Recorder No. <u>10242</u>	T-Open <u>10:35 PM</u> <u>13:05</u>
(D) Initial Shut-In Pressure	<u>513</u>	<u>432</u>	PSI (depth) <u>5192</u>	T-Pulled <u>2:35 AM</u>
(E) Second Initial Flow Pressure	<u>189</u>	<u>39</u>	PSI Recorder No. <u> </u>	T-Out <u>5:20 AM</u>
(F) Second Final Flow Pressure	<u>189</u>	<u>54</u>	PSI (depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>899</u>	<u>810</u>	PSI Initial Opening <u>15</u>	Test <u>850</u> ✓
(Q) Final Hydrostatic Mud	<u>2407</u>	<u>2386</u>	PSI Initial Shut-in <u>45</u>	Jars <u>200</u> ✓
			Final Flow <u>60</u>	Safety Joint <u>150</u> ✓
			Final Shut-in <u>120</u>	Straddle <u> </u>

82502015.017
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 Roger L. Martin

Our Representative Larry L. Subya

Extra Packer
Elec. Rec. 150 ✓
Mileage 60 60 ✓
Other 903 Hrs ✓
TOTAL PRICE \$ 4400.00

TRILOBITE TESTING L.L.C.

OPERATOR : Mull Drilling Co.
WELL NAME: Burt Barnes "1-35"
LOCATION : 35-31S-19W
INTERVAL : 5607.00 To 5625.00 ft

DATE 11-28-00
KB 2099.00 ft TICKET NO: 13606 DST #3
GR 2088.00 ft FORMATION: Viola
TD 5625.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10242	10242	Alpine			PF Fr. 1350 to 1405 hr
SI 45 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 1405 to 1450 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 1450 to 1550 hr
FS 120 Depth(ft)	5622.0	5622.0	5609.0	0.0	0.0	FS Fr. 1550 to 1750 hr

	Field	1	2	3	4	
A. Init Hydro	2680.0	0.0	2640.0	0.0	0.0	T STARTED 1125 hr
B. First Flow	42.0	0.0	21.0	0.0	0.0	T ON BOTM 1347 hr
B1. Final Flow	42.0	0.0	22.0	0.0	0.0	T OPEN 1350 hr
C. In Shut-in	147.0	0.0	178.0	0.0	0.0	T PULLED 1750 hr
D. Init Flow	42.0	0.0	22.0	0.0	0.0	T OUT 2115 hr
E. Final Flow	42.0	0.0	27.0	0.0	0.0	
F. Fl Shut-in	515.0	0.0	542.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2635.0	0.0	2592.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 22000.00 lbs
						Wt Pulled Loose 8000.00 lbs
						Initial Str Wt 82000.00 lbs
						Unseated Str Wt 82000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 184.00 ft
						D.P. Length 5428.00 ft

RECOVERY

Tot Fluid 70.00 ft of 70.00 ft in DC and 0.00 ft in DP
115.00 ft of Gas in Pipe
70.00 ft of Slight Oil cut Mud 2%O 98%M
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:
Surface blow, built to 2" in bucket

Initial shutin: no blow-back.

Final Flow:

Fair 3" built to 9 1/2" in bucket
in 60 minutes

Final Shutin:

no blow back

Remarks: Est. 10 Ft. of Pay.

SAMPLES: None

SENT TO:

MUD DATA-----

Mud Type Chem.
Weight 9.00 lb/c:
Vis. 65.00 S/L
W.L. 8.00 in3
F.C. 0.00 in
Mud Drop Y 20.0 ft

Amt. of fill 0.00 ft
Btm. H. Temp. 125.00 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 Lanny Saloga
Co. Rep. Roger Martin
Contr. Duke
Rig # 5
Unit #
Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Burt Barnes "1-35"

LOCATION : 35-31S-19W

TICKET No. 13606 D.S.T. No. 3 DATE 11-28-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 18

TOTAL TOOL 45

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 3 Single Total 184

D.P. ABOVE TOOLS.Stands 87 Single 1 Total 5428

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5657

TOTAL DEPTH 5625

TOTAL DRILL PIPE ABOVE K.B. 32

REMARKS:

Good show of Oil in tool.

P.O. SUB Cir. sub	5458
C.O. SUB Top of tool	5580
Double pin	5581
S.I. TOOL Sterling	5586
HMV Sterling	5591
JARS Bowen	5596
SAFETY JOINT Bowen	5598
PACKER Sparton	5603
PACKER Sparton	5607
DEPTH	
1 ft.	5608
ANCHOR Rec. sub	5609
Alpine	5609
Pu. sub	5614
AK-1	5622
9 ft. perfs	5623
BULLNOSE 2 ft. perf	
T.D.	5625

TEST HISTORY 13606 D.S.T.#3 Burt Barnes "1-35" Mull Drilling Co.

Flag Points

t(Min.)	P(PSig)
R: 0.00	2640.64
B: 0.00	21.15
C: 14.50	22.55
D: 45.50	178.47
E: 0.00	22.37
F: 59.75	27.10
G: 120.50	542.04
H: 0.00	2592.23

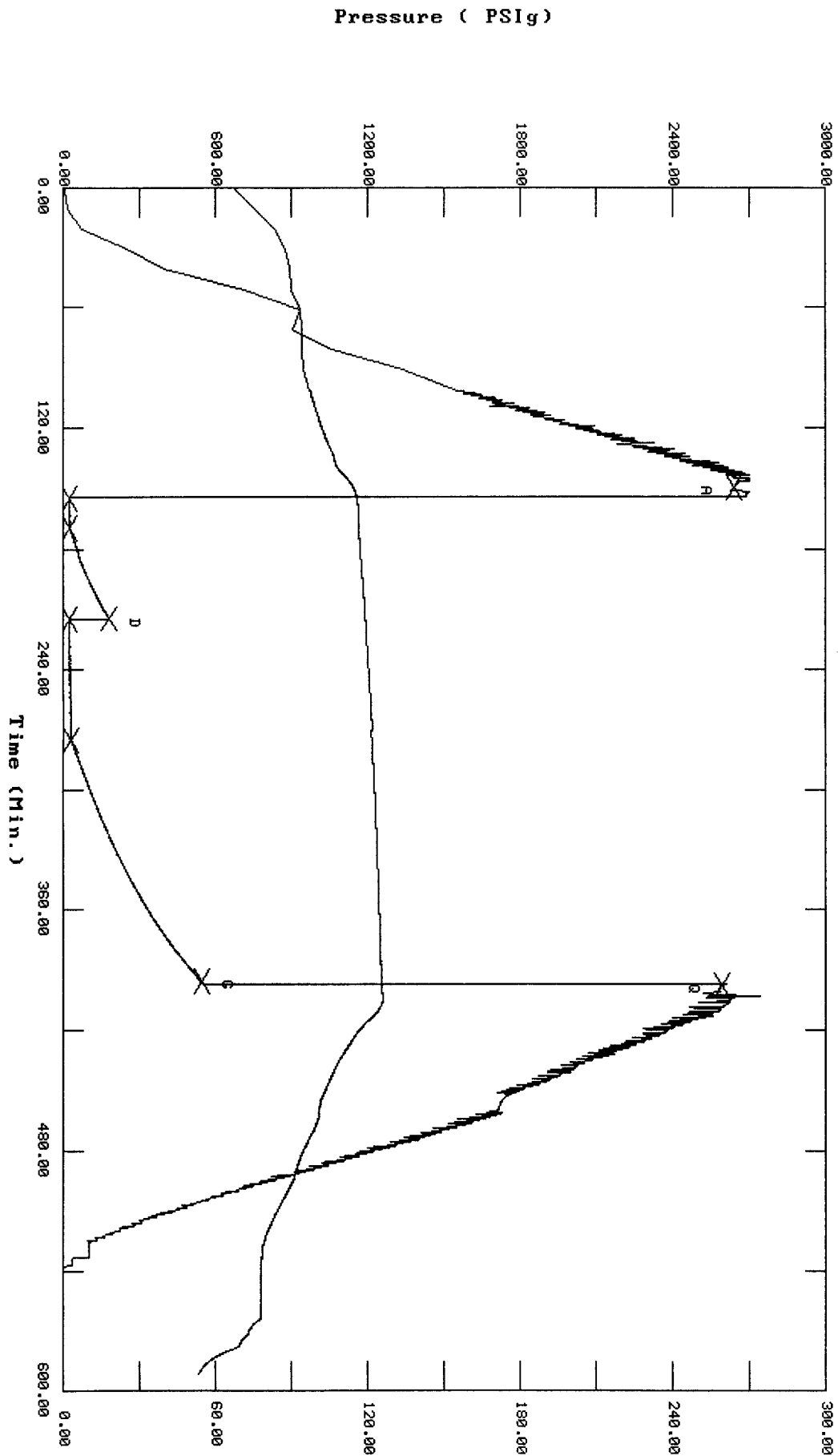
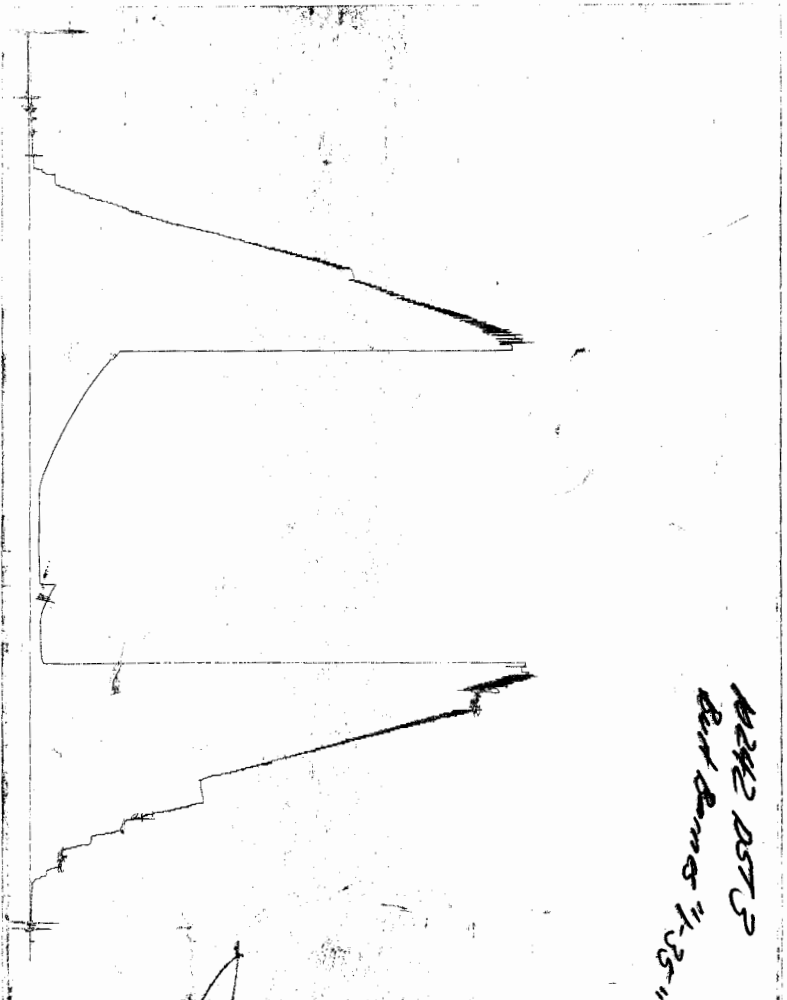


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13606

Test Ticket

APT# 15-033-21161

Well Name & No. <u>Bent Barnes "1-35"</u>	Test No. <u>3</u>	Date <u>11-28-00</u>
Company <u>Mull Drilling Co.</u>	Zone Tested <u>Viola</u>	
Address <u>Wichita Ks. 67201</u>	Elevation <u>2099</u> KB <u>2088</u> GL	
Co. Rep / Geo. <u>Roger Martin</u>	Cont. <u>Duke Rig 5</u>	Est. Ft. of Pay <u>10</u> Por. <u>10</u> %
Location: Sec. <u>35</u> Twp. <u>31S</u> Rge. <u>19W</u>	Co. <u>Comanche</u> State <u>Ks.</u>	
No. of Copies <u>See</u> Distribution Sheet (Y, N) <u>Y</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u></u>

Interval Tested 5607-5625 Initial Str Wt./Lbs. 82,000 Unseated Str Wt./Lbs. 82,000
Anchor Length 18' Tool = 27' Wt. Set Lbs. 22,000 Wt. Pulled Loose/Lbs. 8,000
Top Packer Depth 5602 Tool Weight 4800
Bottom Packer Depth 5607 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 5625 Wt. Pipe Run 8741 Drill Collar Run 184
Mud Wt. 9.0 LCM 2# Vis. 6.5 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 5428 32 1/2
Blow Description Surface blow, built to 2" in bucket. T.F.P.

No blow-back. T.S.T.P.

Fail 3" built to 9 1/2" in bucket. 60 min. F.F.P.

No blow-back. F.S.T.P.

Recovery — Total Feet <u>70</u>	GIP <u>115</u>	Ft. in DC <u>70</u>	Ft. in DP <u>0</u>
Rec. <u>70</u>	Feet Of <u>5 1/2" oil cut mud</u>	%gas <u>2</u>	%oil <u></u> %water <u>98</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>NOTE:</u>	Feet Of <u>Good show of oil in test.</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 <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>8,000</u> ppm System <u></u>

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>2680</u>	<u>2640</u>	PSI Recorder No. <u>3017 "11-16"</u>	T-On Location <u>10:00 A.M.</u>
(B) First Initial Flow Pressure	<u>42</u>	<u>21</u>	PSI (depth) <u>5609</u>	T-Started <u>11:25 A.M.</u>
(C) First Final Flow Pressure	<u>42</u>	<u>22</u>	PSI Recorder No. <u>10242</u>	T-Open <u>1:50 P.M.</u>
(D) Initial Shut-In Pressure	<u>147</u>	<u>178</u>	PSI (depth) <u>5622</u>	T-Pulled <u>5:50 P.M.</u>
(E) Second Initial Flow Pressure	<u>42</u>	<u>22</u>	PSI Recorder No. <u></u>	T-Out <u>9:15 P.M.</u>
(F) Second Final Flow Pressure	<u>42</u>	<u>27</u>	PSI (depth) <u></u>	T-Off Location <u></u>
(G) Final Shut-in Pressure	<u>515</u>	<u>542</u>	PSI Initial Opening <u>15</u>	Test <u>850</u> ✓
(Q) Final Hydrostatic Mud	<u>2635</u>	<u>2592</u>	PSI Initial Shut-in <u>45</u>	Jars <u>200</u> ✓
			Final Flow <u>60</u>	Safety Joint <u>150</u> ✓
			Final Shut-in <u>120</u>	Straddle <u></u>

8280 1116.017
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 Roger Martin

Our Representative Jimmy S. Salgado

Circ. Sub
Sampler
Extra Packer
Elec. Rec. 150 ✓
Mileage 60 ✓
Other 1 Hg. ✓
TOTAL PRICE \$ 4340.00

TRILOBITE TESTING L.L.C.

OPERATOR : Mull Drilling Co.

DATE 11-29-00

WELL NAME: Burt Barnes "1-35"

KB 2099.00 ft

TICKET NO: 13607

DST #4

LOCATION : 35-31S-19W Comanche co KS

GR 2088.00 ft

FORMATION: Viola

INTERVAL : 5625.00 To 5640.00 ft

TD 5640.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10242	10242	Alpine			PF Fr. 1210 to 1225 hr
SI 45 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 1225 to 1310 hr
SF 45 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 1310 to 1355 hr
FS 90 Depth(ft)	5637.0	5637.0	5627.0	0.0	0.0	FS Fr. 1355 to 1525 hr

	Field	1	2	3	4	
A. Init Hydro	2695.0	0.0	2628.0	0.0	0.0	T STARTED 1015 hr
B. First Flow	51.0	0.0	21.0	0.0	0.0	T ON BOTM 1208 hr
B1. Final Flow	51.0	0.0	22.0	0.0	0.0	T OPEN 1210 hr
C. In Shut-in	51.0	0.0	49.0	0.0	0.0	T PULLED 1525 hr
D. Init Flow	51.0	0.0	23.0	0.0	0.0	T OUT 1825 hr
E. Final Flow	51.0	0.0	24.0	0.0	0.0	
F. Fl Shut-in	51.0	0.0	41.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2669.0	0.0	2622.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 22000.00 lbs
						Wt Pulled Loose 28000.00 lbs
						Initial Str Wt 82000.00 lbs
						Unseated Str Wt 82000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 184.00 ft
						D.P. Length 5428.00 ft

RECOVERY

Tot Fluid	20.00 ft of	20.00 ft in DC and	0.00 ft in DP
20.00	ft of Slightly gas cut mud		
0.00	ft of 3% gas 97% 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		
0.00	ft of		

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

BLOW DESCRIPTION

Initial Flow:
 Surface blow built to 1" in bucket in
 15 mintues.
 Initial Shut-In:
 No blow back.
 Final Flow:
 Weak surface blow died in 34 minutes.
 Final Shut-In:
 No blow back

SAMPLES: None

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	60.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Roger Martin
Contr.	Duke
Rig #	5
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Burt Barnes "1-35"

LOCATION : 35-31S-19W Comanche co KS

TICKET No. 13607 D.S.T. No. 4 DATE 11-29-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 15

TOTAL TOOL 42

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 3 Single Total 184

D.P. ABOVE TOOLS.Stands 87 Single 1 Total 5428

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5654

TOTAL DEPTH 5640

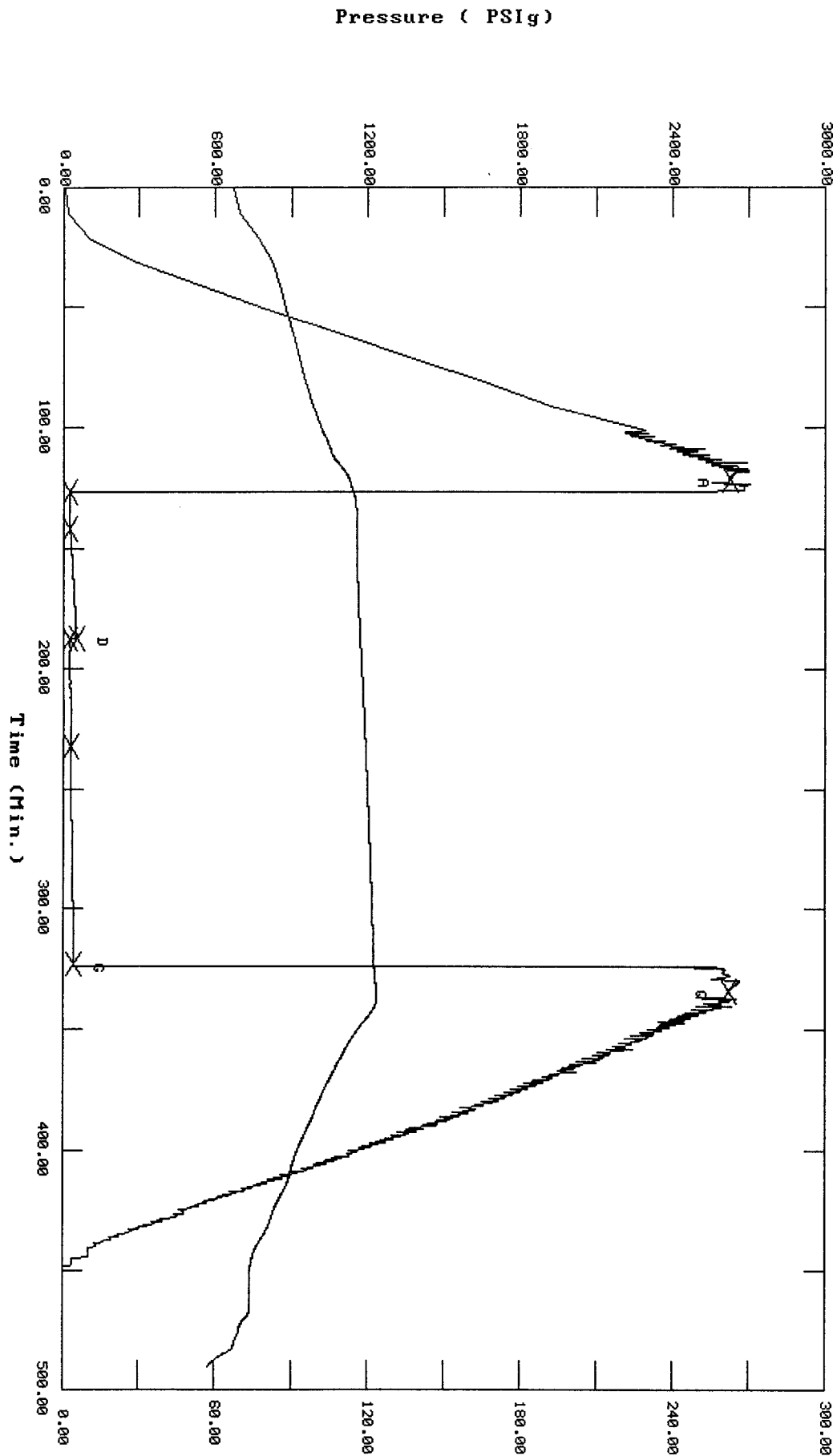
TOTAL DRILL PIPE ABOVE K.B. 14

REMARKS:

Specks of Oil in test tool.

P.O. SUB Cir. sub	5476
C.O. SUB Top of tool	5598
Double pin	5599
S.I. TOOL Sterling	5604
HMV Sterling	5609
JARS Bowen	5614
SAFETY JOINT Bowen	5616
PACKER Sparton	5621
PACKER Sparton	5625
DEPTH	
1 ft.	5626
ANCHOR Rec. sub	5627
Alpine	5627
Pu. sub	5632
AK-1	5637
6 ft. perfs	5638
BULLNOSE 2 ft. perf	
T.D.	5640

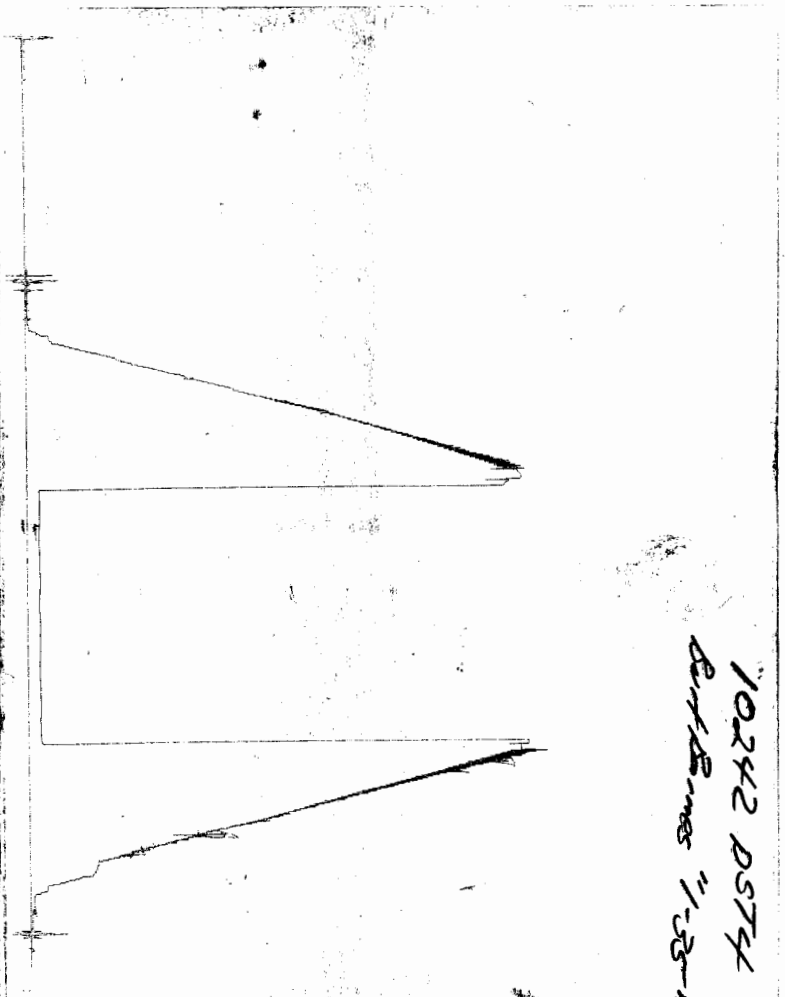
13607 D.S.T.#4 Burt Barnes "1-35" Mull Drilling Co.



Flag Points

t(Min.)	P(PSIg)
A: 0.00	2628.28
B: 0.00	21.51
C: 15.25	22.88
D: 45.50	49.65
E: 0.00	23.72
F: 45.00	24.92
G: 90.25	41.16
H: 0.00	2622.01

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

Nº 13607

Test Ticket

APT# 15-033-21161

Well Name & No. <u>Bent Runer "1-35"</u>	Test No. <u>4</u>	Date <u>11-29-00</u>
Company <u>WMI Drilling Co</u>	Zone Tested <u>Viala</u>	
Address <u>Wichita KS 67201</u>	Elevation <u>2079</u> KB <u>2088</u> GL	
Co. Rep / Geo. <u>Roger Martin</u>	Cont. <u>Duke Rig 5</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>25</u> Twp. <u>31S</u> Rge. <u>19W</u>	Co. <u>Camarache</u> State <u>KS</u>	
No. of Copies <u>See</u> Distribution Sheet (Y, N) <u>Y</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>5625-5640</u>	Initial Str Wt./Lbs. <u>8200</u>	Unseated Str Wt./Lbs. <u>82000</u>
Anchor Length <u>15'</u> Tool = <u>27'</u>	Wt. Set Lbs. <u>22000</u>	Wt. Pulled Loose/Lbs. <u>28000</u>
Top Packer Depth <u>5620</u>	Tool Weight <u>1800</u>	
Bottom Packer Depth <u>5625</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"	
Total Depth <u>5640</u>	Wt. Pipe Run <u> </u> Drill Collar Run <u>184</u>	
Mud Wt. <u>8.9</u> LCM <u>2#</u> Vis. <u>60</u> WL <u>8.0</u>	Drill Pipe Size <u>4 1/2 x H</u> Ft. Run <u>5428</u> 14' up	
Blow Description <u>Surface blow built to 1" in bucket 15 min. T.F.P.</u>		
<u>No blow-back. T.S.T.P.</u>		
<u>Wait surface blow died in 34 min. E.F.P.</u>		
<u>No blow-back. E.S.T.P.</u>		

Recovery — Total Feet <u>20</u> GIP <u>0</u>	Ft. in DC <u>20</u>	Ft. in DP <u>0</u>
Rec. <u>20</u> Feet Of <u>Slugs cut mud</u>	3 %gas %oil	%water <u>97</u> %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>NOTE?</u> Feet Of <u>Sparks of oil in tank</u>	%gas %oil	%water %mud
Rec. <u> </u> Feet Of <u> </u>	%gas %oil	%water %mud
BHT <u>122</u> °F Gravity <u> </u> °API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API
RW <u> </u> @ <u> </u> °F Chlorides <u> </u> ppm Recovery	Chlorides <u>5,000</u> ppm System	

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2625</u>	<u>2628</u>	PSI	Recorder No. <u>3017 "10:05"</u>	T-On Location <u>9:00 A.M.</u>
(B) First Initial Flow Pressure	<u>51</u>	<u>21</u>	PSI	(depth) <u>5627</u>	T-Started <u>10:15 AM</u>
(C) First Final Flow Pressure	<u>51</u>	<u>22</u>	PSI	Recorder No. <u>10242</u>	T-Open <u>12:10 P.M.</u>
(D) Initial Shut-In Pressure	<u>51</u>	<u>49</u>	PSI	(depth) <u>5627</u>	T-Pulled <u>3:25 P.M.</u>
(E) Second Initial Flow Pressure	<u>51</u>	<u>23</u>	PSI	Recorder No. <u> </u>	T-Out <u>6:25 P.M.</u>
(F) Second Final Flow Pressure	<u>51</u>	<u>24</u>	PSI	(depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>51</u>	<u>41</u>	PSI	Initial Opening <u>15</u>	Test <u>✓</u>
(Q) Final Hydrostatic Mud	<u>2669</u>	<u>2622</u>	PSI	Initial Shut-in <u>45</u>	Jars <u>✓</u>

Final Flow <u>45</u>	Safety Joint <u>✓</u>
Final Shut-in <u>90</u>	Straddle <u> </u>
	Circ. Sub <u>✓</u>
	Sampler <u> </u>
	Extra Packer <u> </u>
	Elec. Rec <u>✓</u>
	Mileage <u>60</u> ✓
	Other <u> </u>
	TOTAL PRICE \$ <u>4310.00</u>

82901005.017
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 Roger L Martin

Our Representative Jimmy L. Salgado