

15-081-21317

TRILOBITE TESTING L.L.C.

36-27s-34w

OPERATOR : Oxy U.S.A.

DATE 6-12-2000

WELL NAME: Branstetter A-5

KB 3025.00 ft

TICKET NO: 12601

DST # 1

LOCATION : 36-27s-34w Haskell co KS

GR 3113.00 ft

FORMATION: Marmoton

INTERVAL : 4719.00 To 4778.00 ft

TD 4778.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13278	13278	2357			PF Fr. 0505 to 0550 hr
SI 60 Range(Psi)	4400.0	4400.0	5000.0	0.0	0.0	IS Fr. 0550 to 0650 hr
SF 60 Clock(hrs)	12HR	12HR	ELECT			SF Fr. 0650 to 0750 hr
FS 120 Depth(ft)	4775.0	4775.0	4720.0	0.0	0.0	FS Fr. 0750 to 0950 hr

	Field	1	2	3	4	
A. Init Hydro	2229.0	2244.0	2237.0	0.0	0.0	T STARTED 0259 hr
B. First Flow	165.0	169.0	21.0	0.0	0.0	T ON BOTM 0503 hr
B1. Final Flow	165.0	159.0	71.0	0.0	0.0	T OPEN 0505 hr
C. In Shut-in	1225.0	1219.0	1250.0	0.0	0.0	T PULLED 0950 hr
D. Init Flow	209.0	196.0	80.0	0.0	0.0	T OUT 1230 hr
E. Final Flow	209.0	196.0	129.0	0.0	0.0	
F. Fl Shut-in	1292.0	1287.0	1309.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2141.0	2135.0	2148.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 2000.00 lbs
						Initial Str Wt 80000.00 lbs
						Unseated Str Wt 81000.00 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 277.00 ft
						D.P. Length 4418.00 ft

RECOVERY

Tot Fluid 210.00 ft of 210.00 ft in DC and 0.00 ft in DP
 60.00 ft of Gas in pipe.
 30.00 ft of Mud w/ show of oil
 0.00 ft of 100% mud
 90.00 ft of Slightly oily, gassy water cut mud
 0.00 ft of 8% gas 2% oil 20% water 70% mud
 90.00 ft of Gassy water cut mud
 0.00 ft of 10% gas 40% water 50% mud
 0.00 ft of
 SALINITY 25000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Fair surface blow built to 4" in
 bucket in 30 minutes.

Initial Shut-In:

No blow back.

Final Flow:

Weak surface blow.

Final Shut-In:

No blow back

SAMPLES: None

SENT TO:

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	44.00 S/L
W.L.	15.00 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 F
Hole Condition	Good
% Porosity	14.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Brad Bortz
Co. Rep.	Tom Heflin
Contr.	Cheyenne
Rig #	12
Unit #	
Pump T.	

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Branstetter A-5

LOCATION : 36-27s-34w Haskell co KS

TICKET No. 12601 D.S.T. No. 1 DATE 6-12-2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 59

TOTAL TOOL 89

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 277

D.P. ABOVE TOOLS.Stands 47 Single 1 Total 4418

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4784

TOTAL DEPTH 4778

TOTAL DRILL PIPE ABOVE K.B. 6

REMARKS:

FLUID SAMPLER DATA

Total Vol. 4000 ML.

Total Vol. Rec. 4000 ML.

Oil trc. ML.

Mud 1000 ML.

Wtr. 3000 ML.

Gas 2.0 CF.

Psi. 150

Bht. 118 F.

Pit chlorides 1300 PPM.

Rec. RW.1.76 Ohms at 98 F. 25000 PPM.

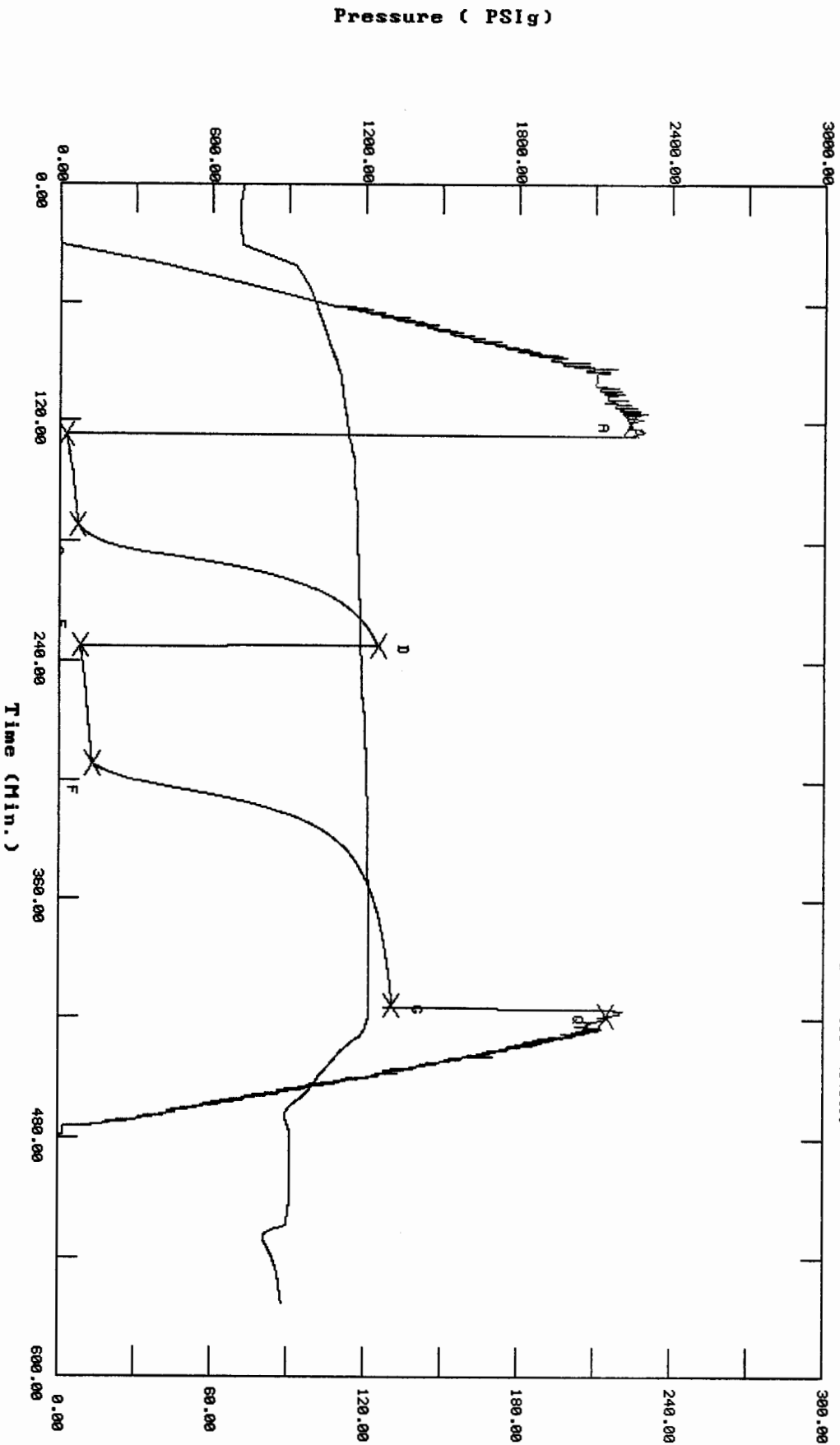
P.O. SUB Cir sub	4599
C.O. SUB Top of tool	4689
Double pin	4690
S.I. TOOL Sterling	4695
Sampler	4698
HMV Sterling	4703
JARS Sterling	4708
SAFETY JOINT Sterling	4710
PACKER Sparton	4715
PACKER Sparton	4719
DEPTH	
1 ft.	4720
ANCHOR Alpine	4720
pu sub & 19 ft.per fs.	4744
AK-1	4775
1 jt. & co sub	4776
BULLNOSE 2 ft. perfs.	
T.D.	4778

TEST HISTORY

12601 DST #1 Branstetter A-5 Oxy U.S.A.

Flag Points

t(Min.)	Pk PSig)
A: 0.00	2237.11
B: 0.00	21.87
C: 45.00	71.24
D: 59.75	1250.40
E: 0.00	80.81
F: 59.75	129.02
G: 121.50	1309.04
H: 0.00	2148.99



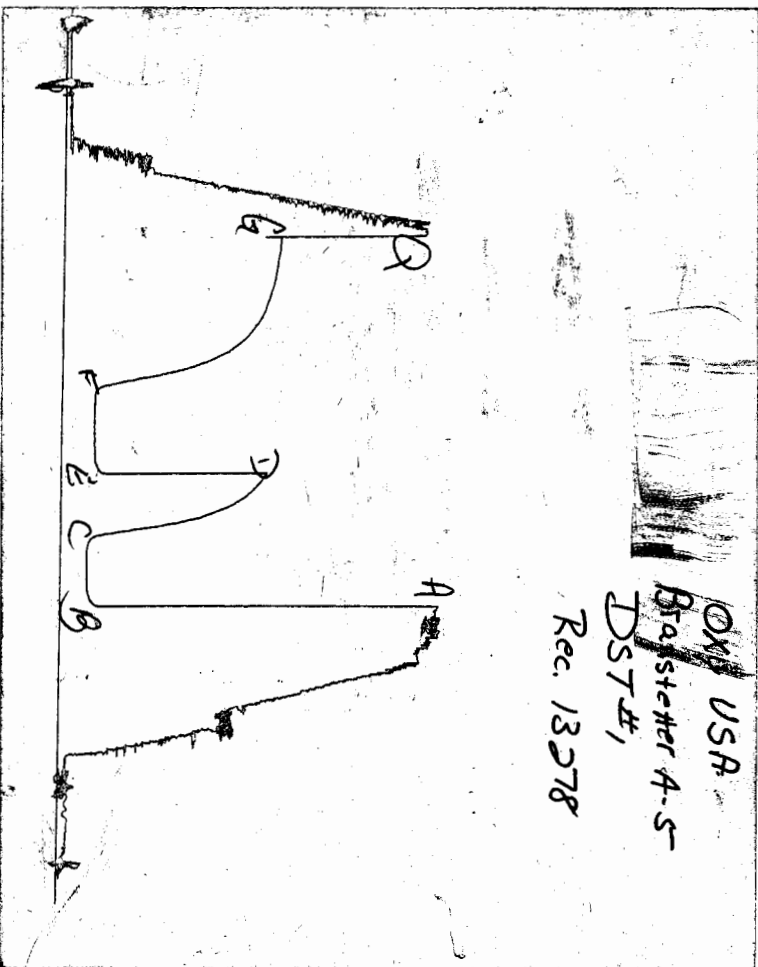
Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE

OK USA
Bragster 4-5
DST#
Rec. 13278



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 12601

Well Name & No. <u>Branstetter A-5</u>	Test No. <u>1</u>	Date <u>6-12-2000</u>
Company <u>Oxy U.S.A.</u>	Zone Tested <u>Marmonton</u>	
Address <u>P.O. 2528 Liberal Ks 67905</u>	Elevation <u>3025</u> KB <u>3013</u> GL	
Co. Rep / Geo. <u>Tom Heflin</u>	Cont. <u>Cheyene 12</u>	Est. Ft. of Pay <u>16</u> Por. <u>14</u> %
Location: Sec. <u>36</u> Twp. <u>27S</u> Rge. <u>34W</u>	Co. <u>Haskell</u> State <u>Ks</u>	
No. of Copies <u>R</u> Distribution Sheet (Y, N) <u>—</u>	Turnkey (Y, N) <u>—</u>	Evaluation (Y, N) <u>—</u>

Interval Tested <u>4719- 4778</u>	Initial Str Wt./Lbs. <u>80,000</u>	Unseated Str Wt./Lbs. <u>81,000</u>
Anchor Length <u>59'</u> <u>tool</u> <u>30'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>2,000</u>
Top Packer Depth <u>4714</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>4719</u>	Hole Size — 7 7/8" <u>—</u>	Rubber Size — 6 3/4" <u>—</u>
Total Depth <u>4778</u>	Wt. Pipe Run <u>—</u>	Drill Collar Run <u>277</u>
Mud Wt. <u>9.0</u> LCM <u>2</u> Vis. <u>44</u> WL <u>15.0</u>	Drill Pipe Size <u>4 1/2 x H</u>	Ft. Run <u>4418</u> <u>6' up</u>
Blow Description <u>Fair Surface blow built to 4" in bucket in 30 min I.F.P.</u>		
<u>No Blow back, I.S.I.P.</u>		
<u>Weak Surface blow F.F.P.</u>		
<u>No Blow back F.S.I.P.</u>		

Recovery — Total Feet <u>210'</u>	GIP <u>60'</u>	Ft. in DC <u>210'</u>	Ft. in DP <u>—</u>
Rec. <u>30</u> Feet Of <u>mud w/ show of oil</u>	%gas <u>—</u> %oil <u>—</u> %water <u>100%</u> %mud <u>—</u>		
Rec. <u>90</u> Feet Of <u>Slightly oil/gassy water</u>	%gas <u>8</u> %oil <u>2</u> %water <u>20</u> %mud <u>70</u>		
Rec. <u>90</u> Feet Of <u>gassy water cut mud</u>	%gas <u>10</u> %oil <u>40</u> %water <u>50</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>118°</u> °F Gravity <u>—</u> °API D@ <u>—</u>	°F Corrected Gravity <u>—</u> °API <u>—</u>		
RW <u>1.76</u> @ <u>98</u> °F Chlorides <u>25,000</u> ppm Recovery	Chlorides <u>1,300</u> ppm System		

(A) Initial Hydrostatic Mud	AK-1 <u>2229</u>	Alpine <u>2237</u>	PSI Recorder No. <u>2357</u>	T-On Location <u>12:30</u>
(B) First Initial Flow Pressure	<u>165</u>	<u>21</u>	PSI (depth) <u>4720</u>	T-Started <u>2:59 Am</u>
(C) First Final Flow Pressure	<u>165</u>	<u>71</u>	PSI Recorder No. <u>13278</u>	T-Open <u>5:05 Am</u>
(D) Initial Shut-In Pressure	<u>1225</u>	<u>1250</u>	PSI (depth) <u>4775</u>	T-Pulled <u>9:50 Am</u>
(E) Second Initial Flow Pressure	<u>209</u>	<u>80</u>	PSI Recorder No. <u>—</u>	T-Out <u>12:30</u>
(F) Second Final Flow Pressure	<u>209</u>	<u>129</u>	PSI (depth) <u>—</u>	T-Off Location <u>—</u>
(G) Final Shut-in Pressure	<u>1292</u>	<u>1309</u>	PSI Initial Opening <u>45</u>	Test <u>✓</u> <u>700</u>
(Q) Final Hydrostatic Mud	<u>2141</u>	<u>2148</u>	PSI Initial Shut-in <u>60</u>	Jars <u>✓</u> <u>200</u>
			Final Flow <u>60</u>	Safety Joint <u>✓</u> <u>50</u>
			Final Shut-in <u>120</u>	Straddle <u>—</u>
				Circ. Sub <u>—</u>
				Sampler <u>✓</u> <u>200</u>
				Extra Packer <u>—</u>
				Elec. Rec. <u>✓</u> <u>150</u>
				Mileage <u>—</u>
				Other <u>✓</u> <u>2</u> <u>60</u>
				TOTAL PRICE \$ <u>1360</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 Tom Heflin
Our Representative Brad Bort