

15-08/- 21270

TRILOBITE TESTING L.L.C.

11-27s-33w

Sec. 13 11,
not 22
as printed

OPERATOR : Oxy USA

DATE 1-25-00

WELL NAME: Atkins L #1

KB 2941.00 ft

TICKET NO: 12458

DST #1

LOCATION : 11-27s-33w Haskell co KS

GR 2928.00 ft

FORMATION: Marmaton

INTERVAL : 4632.00 To 4702.00 ft

TD 4702.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13277	13277	3026			PF Fr. 1927 to 1957 hr
SI 60 Range(Psi)	4125.0	4125.0	4995.0	0.0	0.0	IS Fr. 1957 to 2057 hr
SF 60 Clock(hrs)	12hr	12hr	12hr			SF Fr. 2057 to 2157 hr
FS 120 Depth(ft)	4702.0	4702.0	4639.0	0.0	0.0	FS Fr. 2157 to 2357 hr

	Field	1	2	3	4	
A. Init Hydro	2256.0	2256.0	2170.0	0.0	0.0	T STARTED 1725 hr
B. First Flow	108.0	108.0	34.0	0.0	0.0	T ON BOTM 1925 hr
B1. Final Flow	259.0	250.0	202.0	0.0	0.0	T OPEN 1927 hr
C. In Shut-in	1203.0	1206.0	1152.0	0.0	0.0	T PULLED 2357 hr
D. Init Flow	324.0	304.0	207.0	0.0	0.0	T OUT 0245 hr
E. Final Flow	399.0	421.0	350.0	0.0	0.0	
F. Fl Shut-in	1193.0	1193.0	1143.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2225.0	2241.0	2159.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 130000.00 lbs
						Initial Str Wt 110000.00 lbs
						Unseated Str Wt 111000.00 lbs
						Bot Choke 0.78 in
						Hole Size 7.78 in
						D Col. ID 2.23 in
						D. Pipe ID 3.38 in
						D.C. Length 643.00 ft
						D.P. Length 4013.00 ft

RECOVERY

Tot Fluid 700.00 ft of 643.00 ft in DC and 57.00 ft in DP

120.00 ft of Oil specked mud

0.00 ft of 100% mud

180.00 ft of Gas cut mud

0.00 ft of 5% gas 95% mud

180.00 ft of Gas cut watery mud

0.00 ft of 5% gas 20% water 75% mud

220.00 ft of Mud cut water

0.00 ft of 90% water 10% mud

SALINITY 55000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak blow - bottom of bucket

in 19 minutes.

Initial Shut-in:

Bled 2" - no blow back.

Final Flow:

Weak blow - bottom of bucket

in 59 minutes.

Final Shut-in:

Bled 2" - no blow back.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	42.00 S/L
W.L.	10.10 in3
F.C.	0.00 in
Mud Drop	
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
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Scott Bugbee
Co. Rep.	Tom Heflin
Contr.	Cheyenne
Rig #	12
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Atkins L #1

LOCATION : 22-27s-33w Haskell co KS

TICKET No. 12458 D.S.T. No. 1 DATE 1-25-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 39

TOTAL TOOL 69

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 100

D.C. ABOVE TOOLS.Stands7 Single Total 643

D.P. ABOVE TOOLS.Stands46 Single 2 Total 3983

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4726

TOTAL DEPTH 4702

TOTAL DRILL PIPE ABOVE K.B. 24

REMARKS:

Sampler Data

600 PSI

4000 ml slightly oil cut water

1%O 99%W

RW .21 at 54 deg.

55000 chlorides

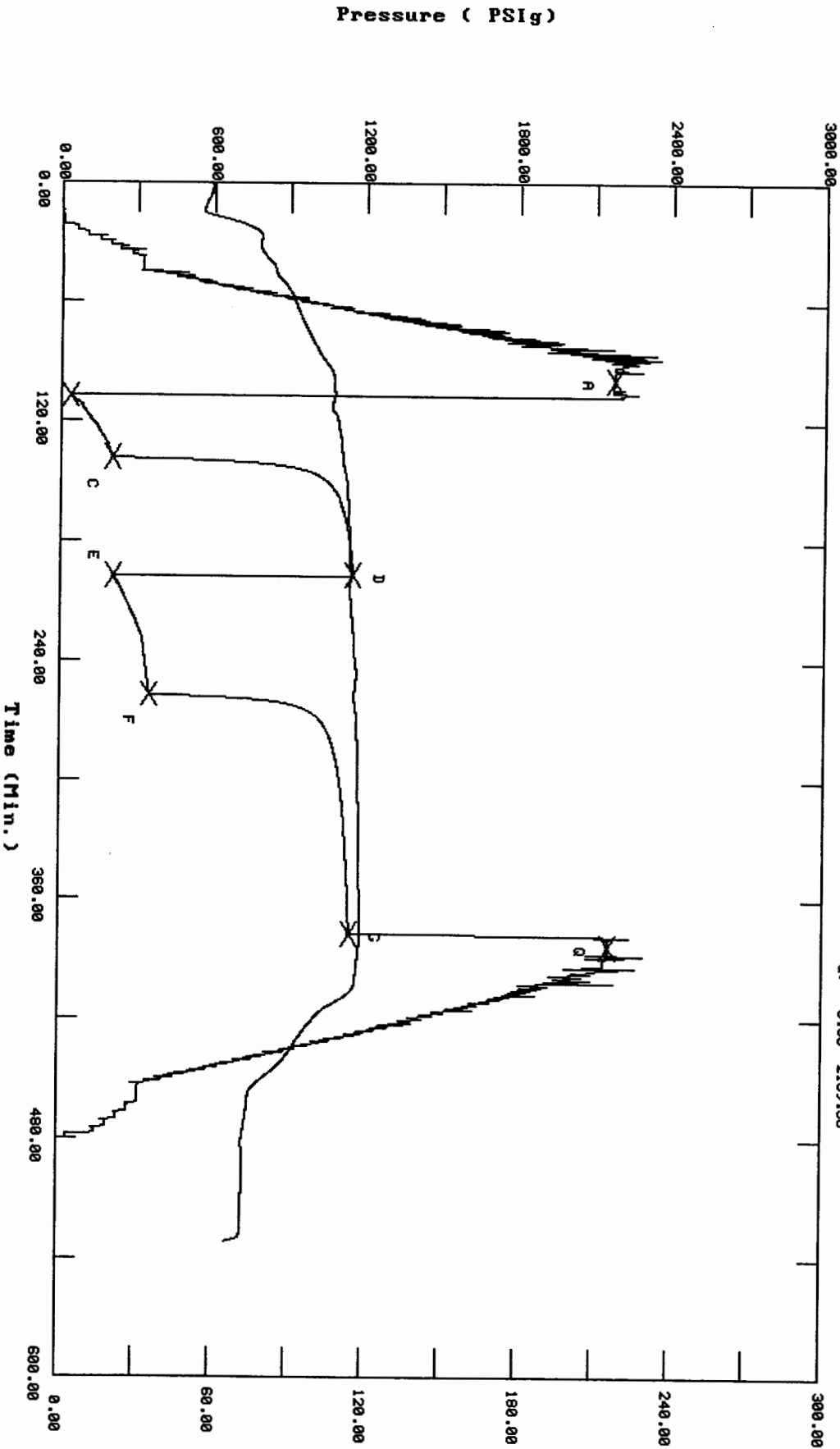
P.O. SUB top of tool	4602
C.O. SUB 1'	4603
S.I. TOOL 5'	4608
3'	4611
HMV 5'	4616
JARS 5'	4621
SAFETY JOINT 2'	4623
PACKER 5'	4628
PACKER 5'	4632
DEPTH 4632	
1'	4633
ANCHOR	
1' perf	4634
Alpine Rec.	4639
5' PU sub	4639
25' perf	4664
1' c/o sub	4665
31' D pipe	4696
1' c/o sub	4697
BULLNOSE	
T.D. 5'	4702

TEST HISTORY

12458 DST#1 Atkins L #1 OXY USA

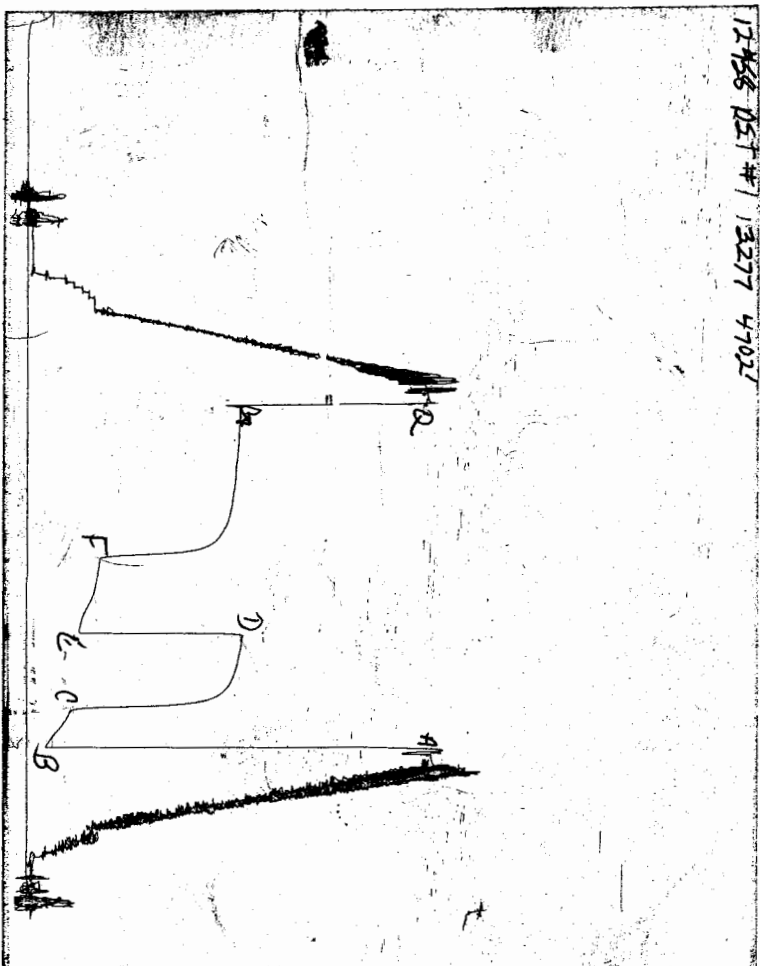
Flag Points
t(Min.) P(PSig)

A	0.00	2170.44
B	0.00	34.57
C	31.00	202.06
D	58.75	1152.37
E	0.00	207.11
F	59.50	350.24
G	120.00	1143.60
H	0.00	2159.36



Temperature (DEG F)

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 12458

Well Name & No. <u>Akins 2-#1</u>	Test No. <u>#1</u>	Date <u>1-25-00</u>
Company <u>Oxy USA</u>	Zone Tested <u>Marmaton</u>	
Address <u>P.O. Box 2428 Liberal KS. 67905</u>	Elevation <u>2941</u> KB <u>2928</u> GL	
Co. Rep / Geo. <u>Tom Heflin</u>	Cont. <u>Cheyenne #12</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>11</u> Twp. <u>27S</u> Rge. <u>33W</u> Co. <u>Haskell</u> State <u>Ks</u>		
No. of Copies <u> </u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested 4632-4702 Initial Str Wt./Lbs. 110,000 Unseated Str Wt./Lbs. 110,000
Anchor Length 70' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 130,000
Top Packer Depth 4627 Tool Weight 1800
Bottom Packer Depth 4632 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
Total Depth 4702 Wt. Pipe Run Drill Collar Run 643'
Mud Wt. 9.1 LCM 4 Vis. 42 WL 10.0 Drill Pipe Size 4 1/2 X H Ft. Run 4013
Blow Description 1st open weak blow B.O.B. in 19 min. to
Bled 2" no blow back
2nd open weak blow B.O.B. in 59 min.
Bled 2" no blow back

Recovery — Total Feet 700 GIP 90 Ft. in DC 643 Ft. in DP 57
Rec. 120 Feet Of oil specked mud %gas %oil %water 100 %mud
Rec. 180 Feet Of Gas cut mud %gas 5 %oil %water 95 %mud
Rec. 180 Feet Of Gas cut Water mud %gas 5 %oil %water 20 %mud 75 %mud
Rec. 220 Feet Of mud cut water %gas %oil %water 90 %mud 10 %mud
Rec. Feet Of %gas %oil %water %mud
BHT 120 °F Gravity °API D@ °F Corrected Gravity °API
RW 20 @ 54 °F Chlorides 55,000 ppm Recovery Chlorides ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2256</u>	<u>2170</u>	<u>3026</u>	<u>4:15 P.M.</u>
(B) First Initial Flow Pressure	<u>108</u>	<u>34</u>	PSI (depth) <u>4639</u>	T-Started <u>5:25 P.M.</u>
(C) First Final Flow Pressure	<u>259</u>	<u>202</u>	PSI Recorder No. <u>13277</u>	T-Open <u>7:27 P.M.</u>
(D) Initial Shut-In Pressure	<u>1203</u>	<u>1152</u>	PSI (depth) <u>4702</u>	T-Pulled <u>11:57 P.M.</u>
(E) Second Initial Flow Pressure	<u>324</u>	<u>207</u>	PSI Recorder No. <u> </u>	T-Out <u>2:45 A.M.</u>
(F) Second Final Flow Pressure	<u>399</u>	<u>350</u>	PSI (depth) <u> </u>	T-Off Location <u> </u>
(G) Final Shut-in Pressure	<u>1193</u>	<u>1143</u>	PSI Initial Opening <u>30</u>	Test <u>✓</u> <u>700^{lb}</u>
(Q) Final Hydrostatic Mud	<u>2225</u>	<u>2159</u>	PSI Initial Shut-in <u>60</u>	Jars <u>✓</u> <u>200^{lb}</u>
			Final Flow <u>60</u>	Safety Joint <u>✓</u> <u>50^{lb}</u>
			Final Shut-in <u>120</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 Tom Heflin
Our Representative Scott Bynum

Mileage
Other Stacy 5hr @ 30 150
TOTAL PRICE \$ 1450

TRILOBITE TESTING L.L.C.

OPERATOR : OXY USA
WELL NAME: Atkins L #1
LOCATION : 11-27S-33W Haskell co KS
INTERVAL : 5076.00 To 5097.00 ft

DATE 1-28-00
KB 2941.00 ft
GR 2928.00 ft
TD 5401.00 ft

TICKET NO: 12459
FORMATION: Morrow
TEST TYPE: CONVENTIONALSTRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13277	13277	3026	13252		PF Fr. 0238 to 0308 hr
SI 60 Range(Psi)	4125.0	4125.0	4995.0	4550.0	0.0	IS Fr. 0308 to 0408 hr
SF 60 Clock(hrs)	12hr	12hr	elect	12hr		SF Fr. 0408 to 0508 hr
FS 120 Depth(ft)	5092.0	5092.0	5082.0	5401.0	0.0	FS Fr. 0508 to 0708 hr

	Field	1	2	3	4	
A. Init Hydro	2422.0	2428.0	2381.0	2664.0	0.0	T STARTED 2330 hr
B. First Flow	32.0	34.0	20.0	0.0	0.0	T ON BOTM 0236 hr
B1. Final Flow	43.0	41.0	24.0	0.0	0.0	T OPEN 0238 hr
C. In Shut-in	1101.0	1121.0	1138.0	0.0	0.0	T PULLED 0708 hr
D. Init Flow	64.0	61.0	26.0	0.0	0.0	T OUT 0945 hr
E. Final Flow	64.0	61.0	37.0	0.0	0.0	
F. Fl Shut-in	1019.0	1029.0	1064.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2401.0	2419.0	2314.0	2664.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I	O		Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 140000.00 lbs
						Initial Str Wt 118000.00 lbs
						Unseated Str Wt 118000.00 lbs

RECOVERY

Tot Fluid	10.00 ft of	10.00 ft in DC and	0.00 ft in DP	
10.00	ft of Mud			
0.00	ft of 100% 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:
Weak 1/4" surface blow.
Initial Shut-In:
No blow back.
Final Flow:
No blow.
Final Shut-In:
No blow back.

SAMPLES:
SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	54.00 S/L
W.L.	8.20 in3
F.C.	0.00 in
Mud Drop	
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	3
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Scott Bugbee
Co. Rep.	Tom Heflin
Contr.	Cheyenne
Rig #	12
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONALSTRADDLE

WELL NAME: Atkins L #1

LOCATION : 11-27S-33W Haskell co KS

TICKET No. 12459 D.S.T. No. 2 DATE 1-28-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 42

TOTAL TOOL 72

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 3 Single Total 282

TOTAL ASSEMBLY 354

D.C. ABOVE TOOLS.Stands7 Single Total 643

D.P. ABOVE TOOLS.Stands47 Single 2 Total 4436

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5433

TOTAL DEPTH 5401

TOTAL DRILL PIPE ABOVE K.B. 32

REMARKS:

Sampler Data

100 PSI

4000 ml Mud 100%

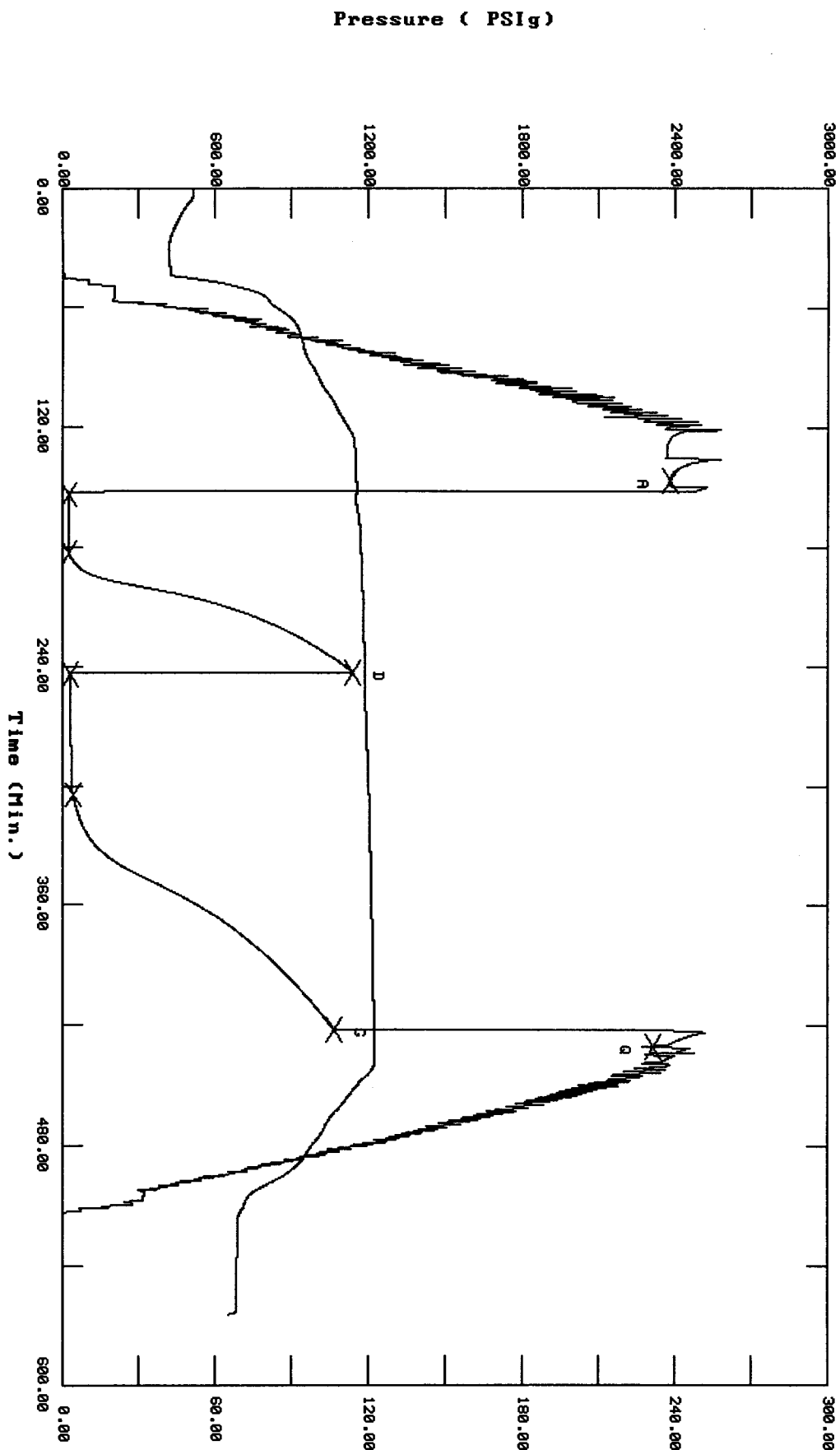
P.O. SUB top of tool	5046
C.O. SUB 1' DP	5047
S.I. TOOL 5'	5052
3' Sampler	5055
HMV 5'	5060
JARS 5'	5065
SAFETY JOINT 2'	5067
PACKER 5'	5072
PACKER 5'	5076
DEPTH 5076	
1' sub	5077
ANCHOR	
Alpine Rec.	5082
5' PU Sub	5082
9' Perf	5091
Ak1 Rec.	5092
1' Blankoff sub	5092
PACKER 5'	5097
18' perf	5115
1' c/o sub	5116
282' D pipe	5398
1' c/o sub	5399
Ak1 Rec.	5401
BULLNOSE	
T.D. 2'	5401

TEST HISTORY

12459 DST#2 Atkins L #1 OXY USA

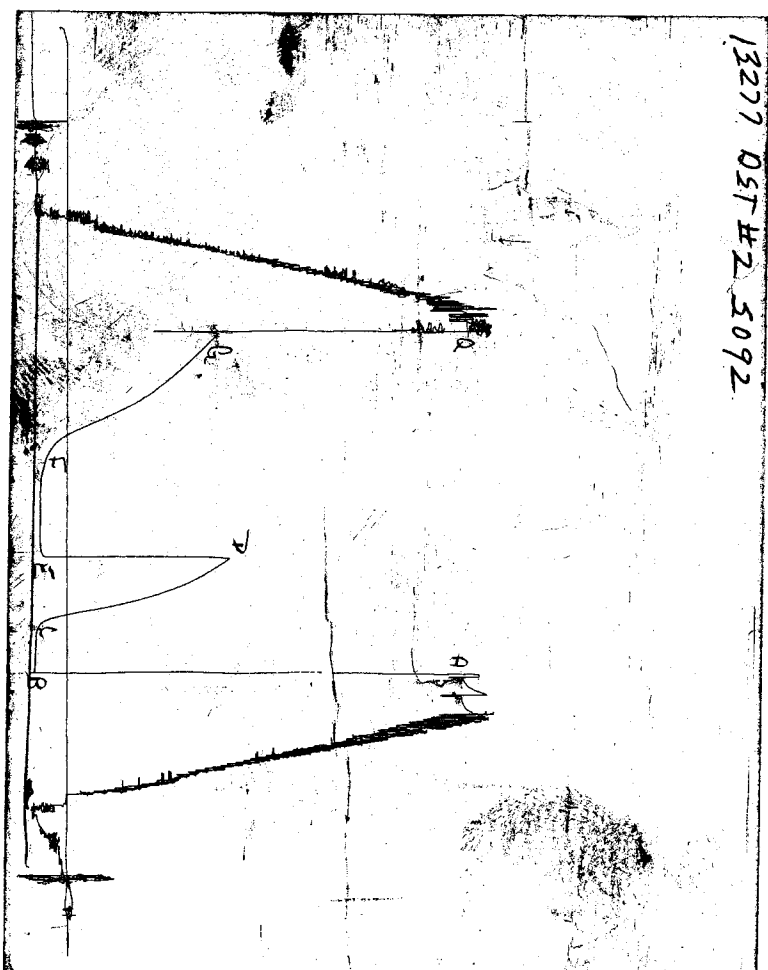
Flag Points

t(Min.)	P(PSig)
A: 0.00	2381.20
B: 0.00	20.37
C: 29.50	24.42
D: 59.75	1138.97
E: 0.00	26.90
F: 60.75	37.54
G: 117.50	1064.21
H: 0.00	2314.79



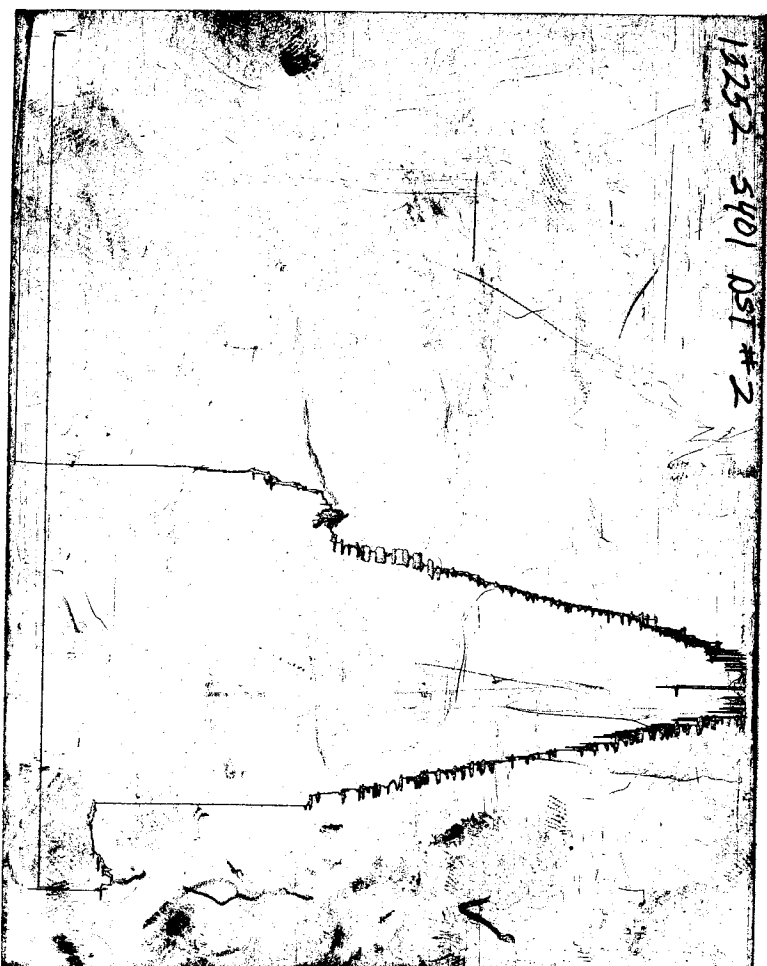
Temperature (DEG F)

CHART PAGE



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

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

N^o 12459

Well Name & No. <u>Atkins L #1</u>	Test No. <u>#2</u>	Date <u>1-28-00</u>
Company <u>Oxy USA</u>	Zone Tested <u>Morrow</u>	
Address <u>Liberal Ks.</u>	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>Tom Heflin</u>	Cont. <u>Cheyenne #12</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>11</u>	Twp. <u>27s</u>	Rge. <u>33w</u> Co. <u>Haskell</u> State <u>Ks.</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5076-5097 Initial Str Wt./Lbs. 118,000 Unseated Str Wt./Lbs. 118,000
Anchor Length 21' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 140,000
Top Packer Depth 5072 Tool Weight 2000
Bottom Packer Depth 5076 Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒
Total Depth 5401 Wt. Pipe Run _____ Drill Collar Run 643 ^{75 lbs}
Mud Wt. 9.0 LCM 3 Vis. 59 WL 8.2 Drill Pipe Size 4 1/2 XH Ft. Run 4718 ^{500 lbs}
Blow Description 1st open weak 1/4" surface blow
no blow back
2nd open no blow
no blow back

Recovery — Total Feet 10 GIP _____ Ft. in DC 10 Ft. in DP _____
Rec. 10 Feet Of mud %gas _____ %oil _____ %water 100 %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 _____ °API D @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1800 ppm System

(A) Initial Hydrostatic Mud	<u>2422</u>	<u>2381</u>	PSI	Recorder No. <u>3026</u>	T-On Location <u>10:00 P.M.</u>
(B) First Initial Flow Pressure	<u>32</u>	<u>20</u>	PSI	(depth) <u>5082</u>	T-Started <u>11:30 P.M.</u>
(C) First Final Flow Pressure	<u>43</u>	<u>24</u>	PSI	Recorder No. <u>13277</u>	T-Open <u>2:38 A.M.</u>
(D) Initial Shut-In Pressure	<u>1101</u>	<u>1128</u>	PSI	(depth) <u>5092</u>	T-Pulled <u>7:08 A.M.</u>
(E) Second Initial Flow Pressure	<u>64</u>	<u>26</u>	PSI	Recorder No. <u>13252</u>	T-Out <u>9:45 A.M.</u>
(F) Second Final Flow Pressure	<u>64</u>	<u>37</u>	PSI	(depth) <u>5401</u>	T-Off Location _____
(G) Final Shut-in Pressure	<u>1019</u>	<u>1064</u>	PSI	Initial Opening <u>30</u>	Test <u>✓</u> <u>800.00</u>
(Q) Final Hydrostatic Mud	<u>2401</u>	<u>2314</u>	PSI	Initial Shut-in <u>60</u>	Jars <u>✓</u> <u>200.00</u>
				Final Flow <u>60</u>	Safety Joint <u>✓</u> <u>50.00</u>
				Final Shut-in <u>120</u>	Straddle <u>✓</u> <u>250.00</u>

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Approved By Tom Heflin
Our Representative Scott Bynbee

Circ. Sub ✓
Sampler ✓ 200.00
Extra Packer ✓ 150.00
Elec. Rec. ✓ 150.00
Mileage _____
Other 1 hr @ 30
TOTAL PRICE \$ 1800.00
1830.00

TRILOBITE TESTING L.L.C.

OPERATOR : OXY USA	DATE 1-29-00
WELL NAME: Atkins L #1	KB 2941.00 ft TICKET NO: 12460 DST #3
LOCATION : 11-27S-33W Haskell co KS	GR 2928.00 ft FORMATION: Chester
INTERVAL : 5261.00 To 5274.00 ft	TD 5401.00 ft TEST TYPE: CONVENTIONALSTRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13252	13252	3026	13277		PF Fr. 1753 to 1823 hr
SI 60 Range(Psi)	4550.0	4550.0	4995.0	4125.0	0.0	IS Fr. 1823 to 1923 hr
SF 60 Clock(hrs)	12hr	12hr	elect	12hr		SF Fr. 1923 to 2023 hr
FS 120 Depth(ft)	5269.0	5269.0	5266.0	5401.0	0.0	FS Fr. 2023 to 2223 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2497.0	2576.0	0.0	T STARTED 1535 hr
B. First Flow	0.0	0.0	375.0	0.0	0.0	T ON BOTM 1751 hr
B1. Final Flow	0.0	0.0	967.0	0.0	0.0	T OPEN 1753 hr
C. In Shut-in	0.0	0.0	1392.0	0.0	0.0	T PULLED 2223 hr
D. Init Flow	0.0	0.0	1013.0	0.0	0.0	T OUT 0145 hr
E. Final Flow	0.0	0.0	1308.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1393.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2471.0	2535.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I	O		Wt Set On Packer 32000.00 lbs
						Wt Pulled Loose 150000.00 lbs
						Initial Str Wt 114000.00 lbs
						Unseated Str Wt 124000.00 lbs
						Bot Choke 0.78 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.38 in
						D.C. Length 643.00 ft
						D.P. Length 4718.00 ft

RECOVERY

Tot Fluid 3000.00 ft of 643.00 ft in DC and 2357.00 ft in DP
 3000.00 ft of Water
 0.00 ft of 100% 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
 0.00 ft of
 SALINITY 42000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Bottom of bucket in 1 minute.
 Initial Shut-In:
 Bled 2". No blow back.
 Final Flow:
 Bottom of bucket in 2 minutes. Strong blow died back to 8".
 Final Shut-In:
 Bled 2". No blow back.

SAMPLES:

SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.00 lb/cf
 Vis. 54.00 S/L
 W.L. 8.20 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 130.00 F
 Hole Condition good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out Y
 Tool Chased N
 Tester Scott Bugbee
 Co. Rep. Tom Heflin
 Contr. Cheyenne
 Rig # 12
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONALSTRADDLE

WELL NAME: Atkins L #1

LOCATION : 11-27S-33W Haskell co KS

TICKET No. 12460 D.S.T. No. 3 DATE 1-29-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 17

TOTAL TOOL 47

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single 1 Total 123

TOTAL ASSEMBLY 170

D.C. ABOVE TOOLS.Stands7 Single Total 643

D.P. ABOVE TOOLS.Stands50 Single 1 Total 4595

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5408

TOTAL DEPTH 5401

TOTAL DRILL PIPE ABOVE K.B. 7

REMARKS:

Sampler Data

150 PSI

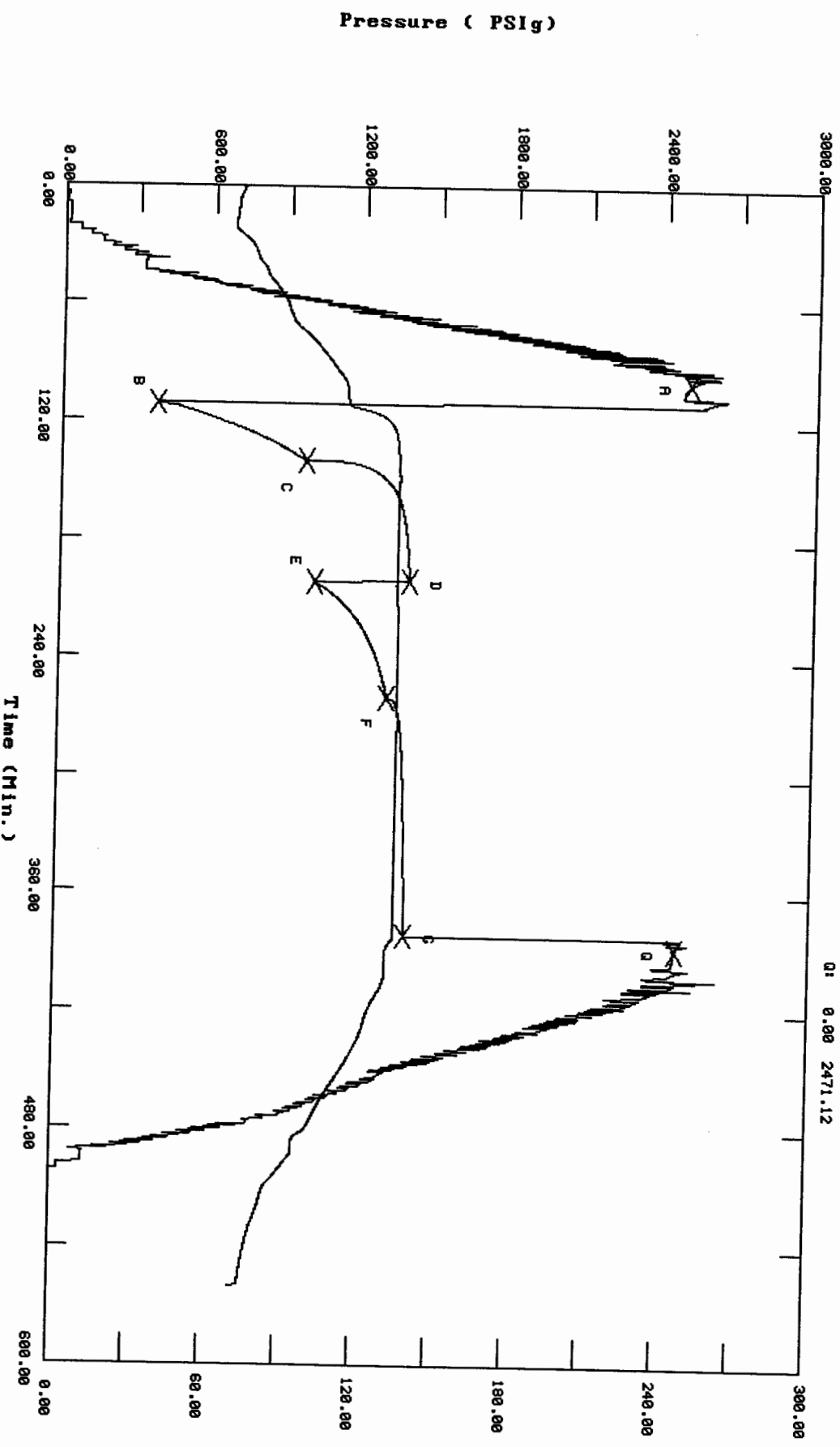
4000 ml water

RW .25 at 52 deg. 42000

P.O. SUB top of tool	5231
C.O. SUB 1'	5232
S.I. TOOL 5'	5237
3' Sampler	5240
HMV 5'	5245
JARS 5'	5250
SAFETY JOINT 2'	5252
PACKER 5' Shale	5257
PACKER 5'	5261
DEPTH 5261	
ANCHOR	
Alpine Rec.	5266
5' PU sub	5266
3' perf	5269
Ak1 Rec.	5269
PACKER 5'	5274
1' c/o sub	5275
123' D pipe	5398
1' c/o sub	5399
Ak1 Rec.	5401
BULLNOSE	
T.D. 2'	5401

TEST HISTORY

12460 DST#3 Atkins L #1 OXY USA

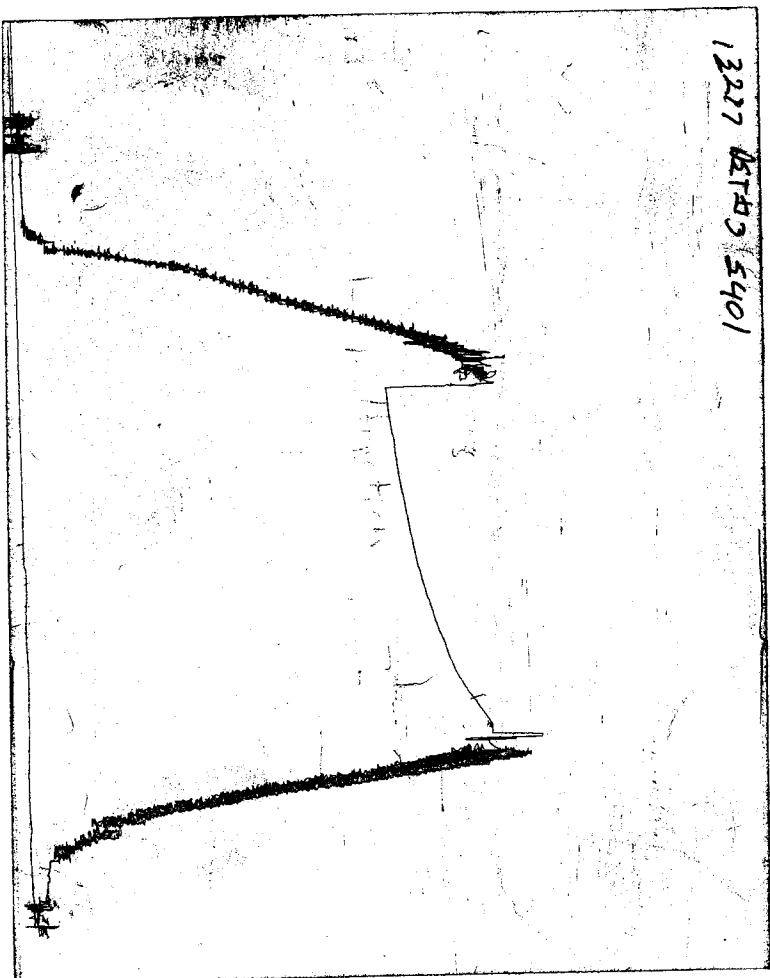


Flag Points

t(Min.)	P(PSig)
A: 0.00	2497.98
B: 0.00	375.49
C: 28.75	967.96
D: 61.00	1392.06
E: 0.00	1013.62
F: 58.50	1308.14
G: 121.75	1393.22
H: 0.00	2471.12

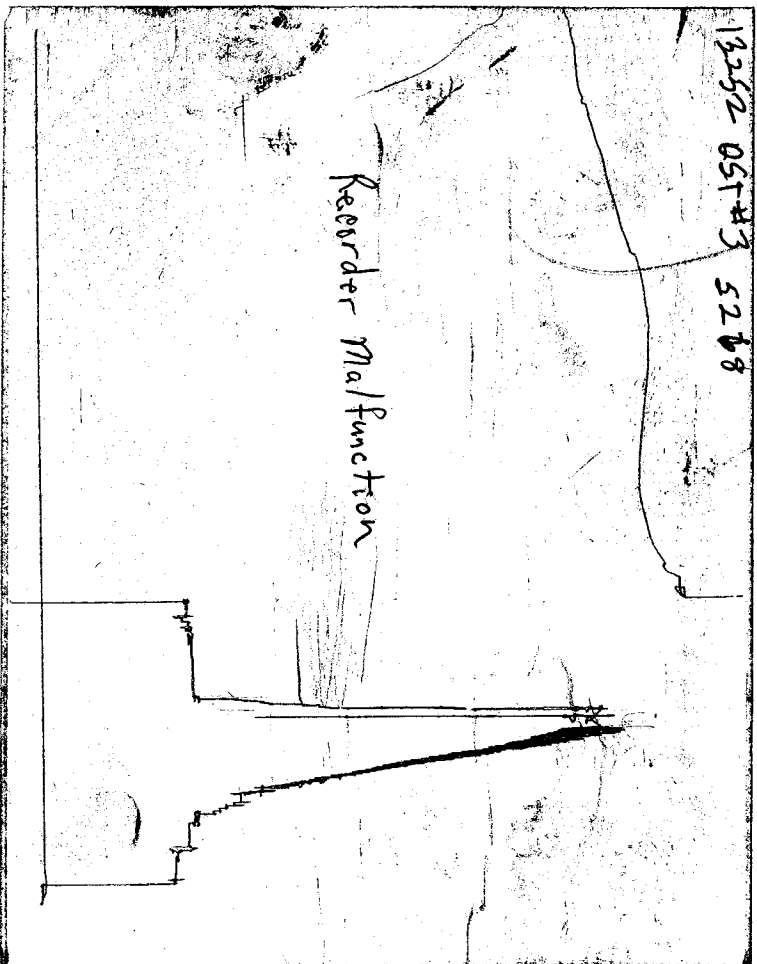
Temperature (DEG F)

CHART PAGE



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

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 12460

Well Name & No. <u>Atkins L #1</u>	Test No. <u>#3</u>	Date <u>1-29-00</u>
Company <u>Oxy USA</u>	Zone Tested <u>Chester</u>	
Address <u>Liberal KS.</u>	Elevation <u>2941</u>	KB <u>2928</u> GL
Co. Rep / Geo. <u>Tom Heflon</u>	Cont. <u>Cheyenne Rig 12</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>11</u>	Twp. <u>27S</u>	Rge. <u>33W</u> Co. <u>Haskell</u> State <u>KS.</u>
No. of Copies <u> </u>	Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>

Interval Tested 5261 - 5274 Initial Str Wt./Lbs. 114,000 Unseated Str Wt./Lbs. 124,000
 Anchor Length 13' Wt. Set Lbs. 32,000 Wt. Pulled Loose/Lbs. 150,800
 Top Packer Depth 5257 Tool Weight 1800
 Bottom Packer Depth 5261 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 5401 Wt. Pipe Run Drill Collar Run 643 ⁷⁵⁰⁰⁵
 Mud Wt. 9.0 LCM 03 Vis. 54 WL 8.2 Drill Pipe Size 4 1/2 XH Ft. Run 4718 ²⁰⁵⁰⁵
 Blow Description 1st open strong blow B.O.B. in 1 min.
Blow 2" no blow back
2nd open B.O.B. in 2 min. strong blow died back to 8"
Blow 2" no blow back

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>3000</u>	<u> </u>	<u>643</u>	<u>2357</u>
Rec. <u>3000</u> Feet Of <u>Water</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
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water %mud

BHT 130 °F Gravity °API D@ °F Corrected Gravity °API
 RW 125 @ 52 °F Chlorides 42000 ppm Recovery Chlorides ppm System

	AK-1	Alpine	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2497</u> PSI	<u>3026</u>	<u>3026</u>	<u>2:50 P.M.</u>
(B) First Initial Flow Pressure	<u>375</u> PSI	<u>5266</u>	<u>5266</u>	<u>3:35 P.M.</u>
(C) First Final Flow Pressure	<u>967</u> PSI	<u>13252</u>	<u>13252</u>	<u>5:53 P.M.</u>
(D) Initial Shut-In Pressure	<u>1392</u> PSI	<u>5269</u>	<u>5269</u>	<u>10:23 P.M.</u>
(E) Second Initial Flow Pressure	<u>1013</u> PSI	<u>13277</u>	<u>13277</u>	<u>1:45 A.M.</u>
(F) Second Final Flow Pressure	<u>1308</u> PSI	<u>5401</u>	<u>5401</u>	<u> </u>
(G) Final Shut-in Pressure	<u>1393</u> PSI	Initial Opening <u>30</u>	Test <u>800</u> ⁰⁰	<u> </u>
(Q) Final Hydrostatic Mud	<u>2471</u> PSI	Initial Shut-in <u>60</u>	Jars <u>200</u> ⁰⁰	<u> </u>
		Final Flow <u>60</u>	Safety Joint <u>50</u> ⁰⁰	<u> </u>
		Final Shut-in <u>120</u>	Straddle <u>250</u> ⁰⁰	<u> </u>
			Circ. Sub <u>35</u> ⁰⁰	<u> </u>
			Sampler <u>200</u> ⁰⁰	<u> </u>
			Extra Packer <u>150</u> ⁰⁰	<u> </u>
			Elec. Rec. <u>150</u> ⁰⁰	<u> </u>
			Mileage <u> </u>	<u> </u>
			Other <u>Shake Packer 150</u> ⁰⁰	<u> </u>
			TOTAL PRICE \$ <u>1985</u> ⁰⁰	<u> </u>

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Approved By Tom Heflon
 Our Representative Scott Bugbee

1 hr 30
 2015.00