

15-033-21047

TRILOBITE TESTING L.L.C.

3-33s-18w

OPERATOR : Midco Exploration, Inc.  
WELL NAME: Todd #3-3  
LOCATION : 3-33s-18w Comanche co KS  
INTERVAL : 3503.00 To 3510.00 ft

DATE 01/31/200  
KB 2035.00 ft TICKET NO: 12078 DST #1  
GR 2024.00 ft FORMATION: Stotler(sd.)  
TD 3510.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 2 Rec.	10991	10991	2350			PF Fr. 1838 to 1840 hr
SI 0 Range(Psi )	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. mis to run hr
SF 0 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. to hr
FS 0 Depth(ft )	3489.0	3489.0	3509.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	1808.0	0.0	1691.0	0.0	0.0	T STARTED 1448 hr
B. First Flow	959.0	0.0	1264.0	0.0	0.0	T ON BOTM 1835 hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN 1838 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 1845 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1829.0	0.0	1796.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 51000.00 lbs
						Unseated Str Wt 54000.00 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 3489.00 ft

RECOVERY

Tot Fluid 420.00 ft of 0.00 ft in DC and 420.00 ft in DP  
420.00 ft of Drilling 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

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

BLOW DESCRIPTION

Initial Flow:  
Strong blow. Bottom of bucket in 15 seconds. Packer failure. Pulled tool.

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/cf
Vis.	46.00 S/L
W.L.	12.00 in3
F.C.	0.32 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 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.	Tom Williams
Contr.	Duke
Rig #	5
Unit #	none
Pump T.	none

SAMPLES:  
SENT TO:

Test Successful: N

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Todd #3-3

LOCATION : 3-33s-18w Comanche co KS

TICKET No. 12078 D.S.T. No. 1 DATE 01/31/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 31

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 7

TOTAL TOOL ..... 38

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

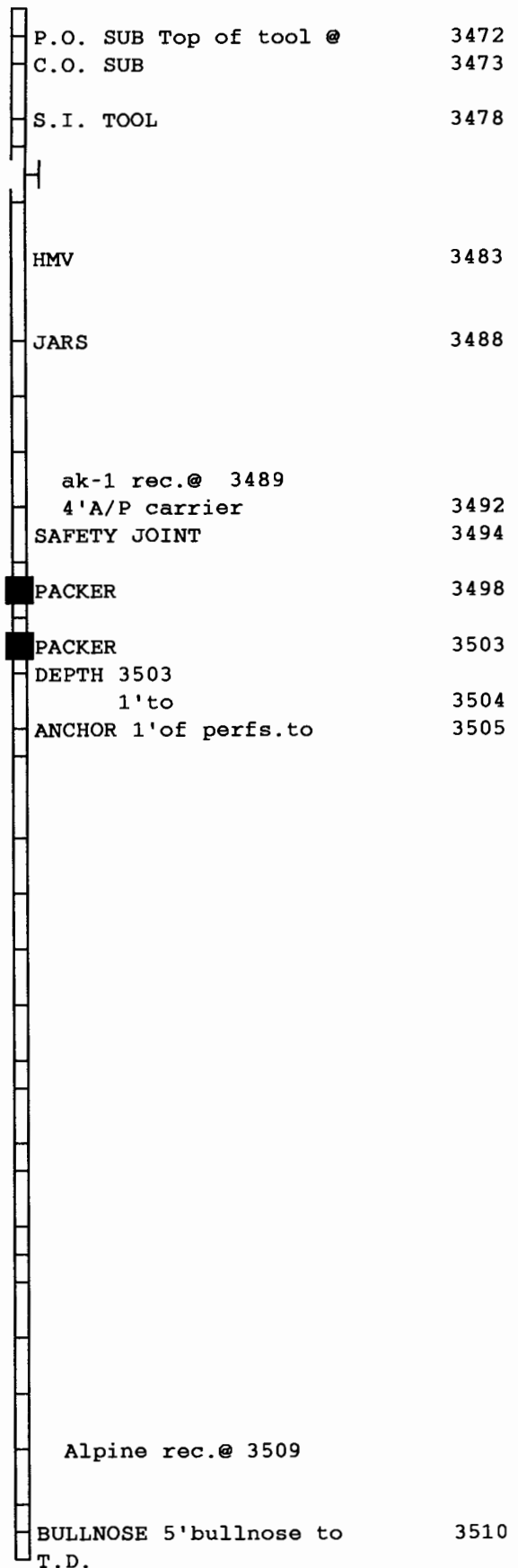
D.P. ABOVE TOOLS.Stands56 Single Total 3489

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3527

TOTAL DEPTH ..... 3510

TOTAL DRILL PIPE ABOVE K.B. .... 17

REMARKS:



**TEST HISTORY**  
 TK#12078 DST#1 Todd #3-3 Midco Exploration, Inc.

Flag Points  
 <Min.> P< PSig>  
 R1 0.00 1691.14  
 B1 0.00 1263.78  
 Q1 0.00 1795.63

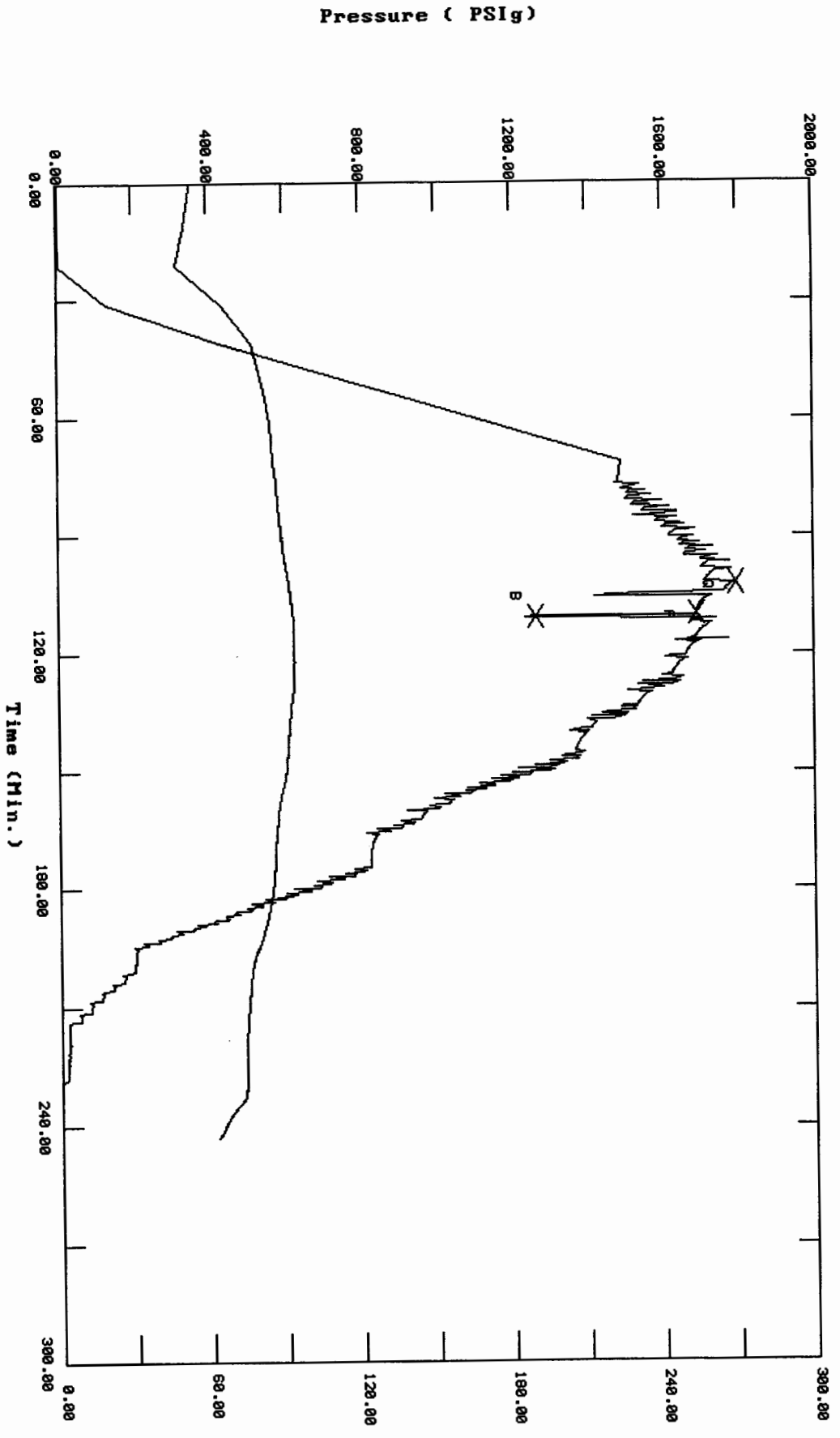
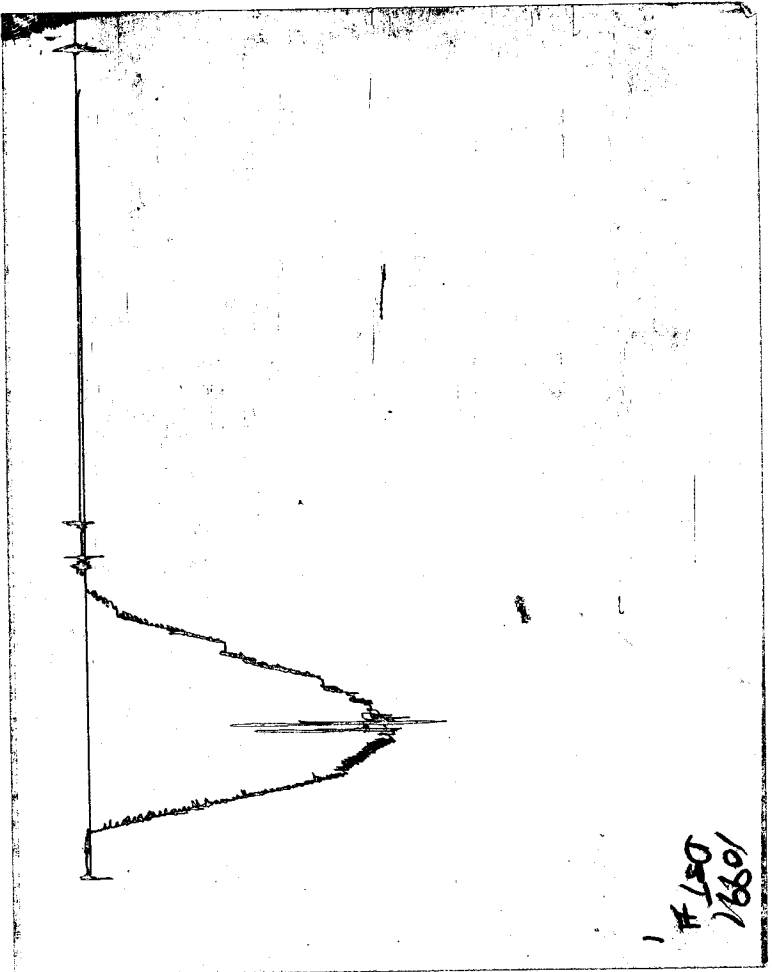


CHART PAGE



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N<sup>o</sup> 12078

## Test Ticket

Well Name & No. <u>Todd # 3-3</u>		Test No. <u>#1</u>	Date <u>01/31/2000</u>
Company <u>Midco Exploration Inc.</u>		Zone Tested <u>Statter Sd.</u>	
Address <u>414 Plaza Drive, Suite 204 Westmont, IL 60559</u>		Elevation <u>2035</u>	KB <u>2024</u> GL
Co. Rep / Geo. <u>Tom Williams</u>		Cont. <u>Duke #5</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>3</u>	Twp. <u>33<sup>S</sup></u>	Rge. <u>18<sup>W</sup></u>	Co. <u>Comanche</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____	Evaluation (Y, N) _____

Interval Tested <u>3503' - 3510'</u>	Initial Str Wt./Lbs. <u>51000</u>	Unseated Str Wt./Lbs. <u>51000</u>
Anchor Length <u>7'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>6000</u>
Top Packer Depth <u>3498'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>3503'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>3510'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>N/A</u>
Mud Wt. _____ LCM _____ Vis. _____ WL _____	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>5489'</u>
Blow Description <u>IF! Mis run packer failure.</u>		

FF!

Recovery — Total Feet <u>420'</u>	GIP _____	Ft. in DC <u>N/A</u>	Ft. in DP <u>420'</u>
Rec. <u>420</u> Feet Of <u>Drilling 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 _____
BHT <u>94°</u>	°F Gravity _____	°API D@ _____	°F Corrected Gravity _____ °API _____
RW _____ @ _____	°F Chlorides _____	ppm Recovery _____	Chlorides _____ ppm System _____

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1808</u>	<u>1691</u>	<u>2350</u>	_____
(B) First Initial Flow Pressure	<u>959</u>	<u>1264</u>	(depth) <u>3509'</u>	T-Started <u>1440</u>
(C) First Final Flow Pressure	_____	_____	PSI Recorder No. <u>10991</u>	T-Open <u><del>1608</del> 1638</u>
(D) Initial Shut-In Pressure	_____	_____	(depth) <u>3489'</u>	T-Pulled <u><del>1605</del> 1645</u>
(E) Second Initial Flow Pressure	_____	_____	PSI Recorder No. _____	T-Out <u>1830</u>
(F) Second Final Flow Pressure	_____	_____	(depth) _____	T-Off Location <u>1945</u>
(G) Final Shut-in Pressure	_____	_____	PSI Initial Opening <u>2 mins</u>	Test <input checked="" type="checkbox"/> 400
(Q) Final Hydrostatic Mud	<u>1829</u>	<u>1796</u>	PSI Initial Shut-in _____	Jars <input checked="" type="checkbox"/> 200
			Final Flow _____	Safety Joint <input checked="" type="checkbox"/> 50
			Final Shut-in _____	Straddle _____
				Circ. Sub _____
				Sampler _____
				Extra Packer _____
				Elec. Rec. <input checked="" type="checkbox"/> 150
				Mileage _____
				Other <u>AK Carrier</u>
				TOTAL PRICE \$ <u>900</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 Williams  
 Our Representative Doreen Conrath

TRILOBITE TESTING L.L.C.

OPERATOR : Midco Exploration, Inc. DATE 02-06-000  
 WELL NAME: Todd #3-3 KB 2035.00 ft TICKET NO: 12115 DST #2  
 LOCATION : 3-33s-18w Comanche co KS GR 2024.00 ft FORMATION: Pawnee  
 INTERVAL : 5065.00 To 5120.00 ft TD 5280.00 ft TEST TYPE: CONV/STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13788	13788	2342	10248		PF Fr. 2258 to 2328 hr
SI 60 Range(Psi )	4650.0	4650.0	4995.0	4400.0	0.0	IS Fr. 2328 to 0028 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.	12 hr		SF Fr. 0028 to 0128 hr
FS 60 Depth(ft )	5113.0	5113.0	5072.0	5277.0	0.0	FS Fr. 0128 to 0228 hr

	Field	1	2	3	4	
A. Init Hydro	2530.0	0.0	2521.0	2410.0	0.0	T STARTED 2035 hr
B. First Flow	205.0	0.0	35.0	214.0	0.0	T ON BOTM 2250 hr
BI. Final Flow	175.0	0.0	36.0	209.0	0.0	T OPEN 2258 hr
C. In Shut-in	1367.0	0.0	1365.0	1304.0	0.0	T PULLED 0228 hr
D. Init Flow	105.0	0.0	35.0	176.0	0.0	T OUT 0520 hr
E. Final Flow	70.0	0.0	47.0	87.0	0.0	
F. Fl Shut-in	1123.0	0.0	1153.0	1093.0	0.0	TOOL DATA-----
G. Final Hydro	2453.0	0.0	2374.0	2348.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 68000.00 lbs
						Initial Str Wt 55000.00 lbs
						Unseated Str Wt 55000.00 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 5050.00 ft

RECOVERY

Tot Fluid 70.00 ft of 0.00 ft in DC and 70.00 ft in DP  
 0.00 ft of Gas in pipe.  
 70.00 ft of Gas cut mud  
 0.00 ft of 5% gas 95% mud  
 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 8000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Fair to strong blow. Bottom of bucket  
 in 9 minutes.

Initial Shut-In:

No blow.

Final Flow:

Strong blow. Bottom of bucket in 10  
 to 15 seconds.

Final Shut-In:

No blow.

SAMPLES: None

SENT TO: Caraway/Liberal

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.30 lb/cf  
 Vis. 53.00 S/L  
 W.L. 8.00 in3  
 F.C. 0.20 in  
 Mud Drop N  
 Amt. of fill 1.00 ft  
 Btm. H. Temp. 118.00 F  
 Hole Condition good  
 % Porosity 10.00  
 Packer Size 6.75 in  
 No. of Packers 3  
 Cushion Amt. 0.00 N  
 Cushion Type None  
 Reversed Out N  
 Tool Chased N  
 Tester Gary Pevoteaux  
 Co. Rep. Al Downing  
 Contr. Duke Drlg.  
 Rig # 5  
 Unit #  
 Pump T. LCM 3 #/bl

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV/STRADDLE

WELL NAME: Todd #3-3

LOCATION : 3-33s-18w Comanche co KS

FICKET No. 12115 D.S.T. No. 2 DATE 02-06-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 30

TOTAL TOOL ..... 57

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 2 Single 2 Total 185

TOTAL ASSEMBLY ..... 242

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands81 Single Total 5050

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5292

TOTAL DEPTH ..... 5280

TOTAL DRILL PIPE ABOVE K.B. .... 12

REMARKS:

Comments:

FLUID SAMPLER DATA (not run)

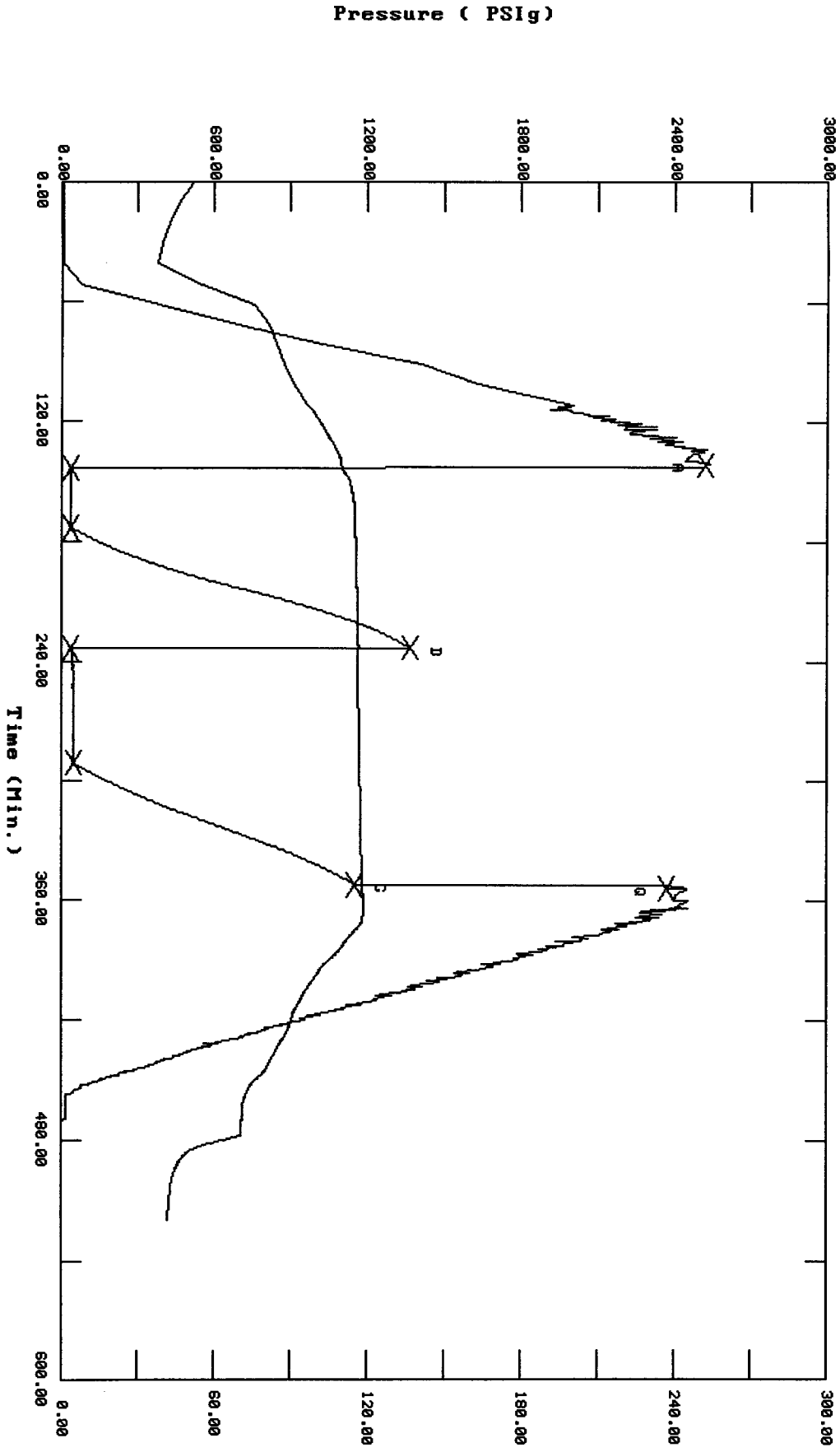
GAS----- cubic ft  
 OIL----- ML.  
 MUD----- ML.  
 WATER----- ML.  
 OTHER-----  
 PRESSURE----- PSI  
 Rw ----- ohms @ deg. F.  
 CHLORIDES----- ppm.  
 GRAVITY----- deg.API

P.O. SUB		
C.O. SUB @ top of tool		5038
S.I. TOOL Sterling		5044
HMV Sterling		5049
JARS bowen		5054
SAFETY JOINT bowen		5056
PACKER Top		5060
PACKER Btm.		5065
DEPTH 5065		
1 ft.		5066
ANCHOR		
3'perfs & sub to		5069
Alpine rec. @ 5072		
1 jt. pipe to		5100
AK-1 rec. @ 5113		
17'perfs & b.o. to		5117
3'to		5120
5120		
Stubb & sub to		5122
2 1/2 stds pipe to		5276
AK-1 rec. @ 5277		
sub to		5277
BULLNOSE 3 ft. perforated		5280
T.D.		

TEST HISTORY  
 12115 DST#2 TODD #3-3 MIDCO EXPLORATION INC.

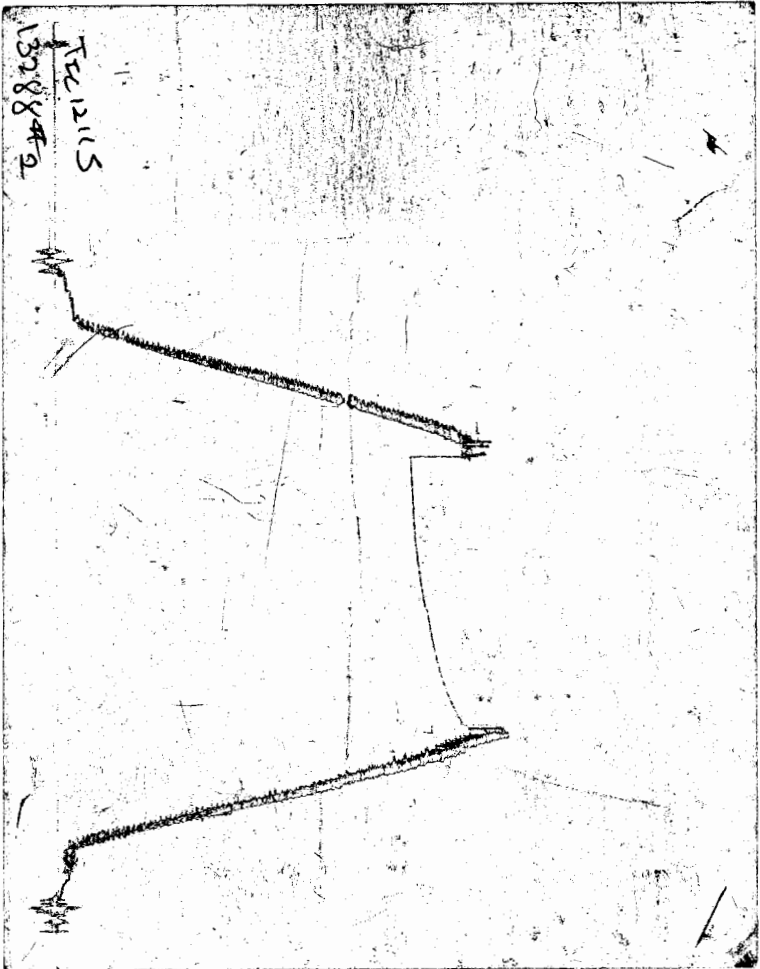
Flag Points

(Min.)	PK	PSig
R1	0.00	2520.51
B1	0.00	34.57
C1	29.50	36.42
D1	60.00	1364.89
E1	0.00	34.82
F1	58.00	46.82
G1	60.50	1152.49
G2	0.00	2373.72



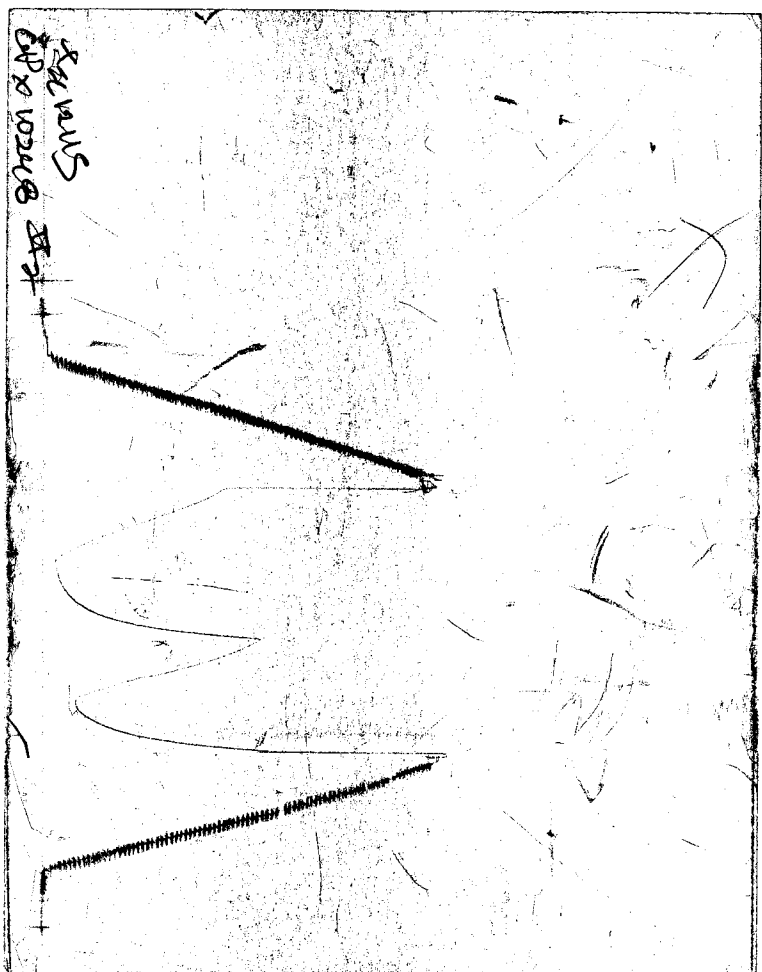
Temperature (DEG F)

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

N<sup>o</sup> 12115

## Test Ticket

Well Name & No.	<u>Tadde # 3-3</u>	Test No.	<u>2</u>	Date	<u>2-6-2000</u>
Company	<u>Medco Expl. Inc.</u>	Zone Tested	<u>Pawnee</u>		
Address	<u>414 Plaza Dr. Ste 204, Westmont, MO 65559</u>	Elevation	<u>2035</u>	KB	<u>2024</u>
Co. Rep / Geo.	<u>at Banning</u>	Cont.	<u>Duke Dwy #5</u>	Est. Ft. of Pay	<u>6</u>
Location: Sec.	<u>3</u>	Twp.	<u>330S</u>	Rge.	<u>18W</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u>
		Co.	<u>Comanche</u>	State	<u>KS</u>
		Evaluation (Y, N)	<u>N</u>		

Interval Tested	<u>5065 - 5120'</u>	Initial Str Wt./Lbs.	<u>35,000</u>	Unseated Str Wt./Lbs.	<u>55,000</u>
Anchor Length	<u>55'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>60,000</u>
Top Packer Depth	<u>5060 &amp; 5065'</u>	Tool Weight	<u>2100 #</u>		
Bottom Packer Depth	<u>5120'</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>5280'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>None</u>
Mud Wt.	<u>9.3</u> LCM <u>3#</u> Vis. <u>53</u> WL <u>8.0</u>	Drill Pipe Size	<u>4 1/2" x 14'</u>	Ft. Run	<u>5090</u>
Blow Description	<u>FF: Fair to strong blow, B.O.B. in 9 mins. ISF: No blow.</u>				
	<u>FF: Strong blow, B.O.B. in 10-15 sec. FSI: No blow.</u>				

Recovery — Total Feet	<u>70</u>	GIP	<u>9</u>	Ft. in DC	<u>~</u>	Ft. in DP	<u>70</u>
Rec.	<u>70</u>	Feet Of	<u>GCM</u>	%gas		%oil	
				%water		%mud	<u>95</u>
Rec.		Feet Of		%gas		%oil	
				%water		%mud	
Rec.		Feet Of		%gas		%oil	
				%water		%mud	
Rec.		Feet Of		%gas		%oil	
				%water		%mud	
BHT	<u>118</u>	°F Gravity	<u>N/A</u>	°API @	<u>~</u>	°F Corrected Gravity	<u>N/A</u>
RW	<u>N.C.</u>	°F Chlorides	<u>8,000</u>	ppm Recovery		Chlorides	<u>0,000</u>
				ppm System			

(A) Initial Hydrostatic Mud	AK-1 <u>2530</u>	Alpine <u>2521</u>	PSI Recorder No.	<u>2342</u>	T-On Location	<u>1938</u>
(B) First Initial Flow Pressure	<u>205</u>	<u>35</u>	PSI (depth)	<u>5072'</u>	T-Started	<u>2035</u>
(C) First Final Flow Pressure	<u>175</u>	<u>36</u>	PSI Recorder No.	<u>13788</u>	T-Open	<u>2258</u>
(D) Initial Shut-In Pressure	<u>1367</u>	<u>1365</u>	PSI (depth)	<u>5113'</u>	T-Pulled	<u>0228</u>
(E) Second Initial Flow Pressure	<u>105</u>	<u>35</u>	PSI Recorder No.	<u>10248</u>	T-Out	<u>0520</u>
(F) Second Final Flow Pressure	<u>70</u>	<u>47</u>	PSI (depth)	<u>5277'</u>	T-Off Location	<u>0640</u>
(G) Final Shut-in Pressure	<u>1123</u>	<u>1153</u>	PSI Initial Opening	<u>30</u>	Test	<u>✓ 800<sup>00</sup></u>
(Q) Final Hydrostatic Mud	<u>2453</u>	<u>2374</u>	PSI Initial Shut-in	<u>60</u>	Jars	<u>✓ 200<sup>00</sup></u>
			Final Flow	<u>60</u>	Safety Joint	<u>✓ 50<sup>00</sup></u>
			Final Shut-in	<u>60</u>	Straddle	<u>✓ 250<sup>00</sup></u>
					Circ. Sub	
					Sampler	
					Extra Packer	<u>✓ 150<sup>00</sup></u>
					Elec. Rec.	<u>✓ 150<sup>00</sup></u>
					Mileage	
					Other	
					TOTAL PRICE \$	<u>✓ 1600<sup>00</sup></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 [Signature]

Our Representative [Signature]

2175-45  
 ✓ 800<sup>00</sup>  
 ✓ 200<sup>00</sup>  
 ✓ 50<sup>00</sup>  
 ✓ 250<sup>00</sup>  
 ✓ 150<sup>00</sup>  
 ✓ 150<sup>00</sup>  
 TOTAL PRICE \$ ✓ 1600<sup>00</sup>