

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

Operator: License # 5259

Name: Mai Oil Operations, Inc.

Address P.O. Box 33

City/State/Zip Russell, KS 67665

Purchaser: _____

Operator Contact Person: Allen Bangert

Phone (785) 483-2169

Contractor: Name: Vonfeldt Drilling, Inc.

License: 9431

Wellsite Geologist: Todd Morgenstern

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

3-28-01 4-6-01 4-6-01

Spud Date 3-28-01 Date Reached TD 4-6-01 Completion Date 4-6-01

API NO. 15- 051-25082-0000

County Ellis

60' S & 70' E

S/2-N/2-N/2 Sec. 6 Twp. 11 S Rge. 20 X W

4230 Feet from S/N (circle one) Line of Section

2570 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Richards Well # 10

Field Name Mendota

Producing Formation _____

Elevation: Ground 2040 KB 2045

Total Depth 3720' PBTB _____

Amount of Surface Pipe Set and Cemented at 219 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 1502'

feet depth to SURFACE w/ 200 sx cmt.

Drilling Fluid Management Plan Alt II 7/27/01 AB
(Data must be collected from the Reserve Pit)

Chloride content 7000 ppm Fluid volume 240 bbls

Dewatering method used HAULED TO DISPOSAL

Location of fluid disposal if hauled offsite:

Operator Name MAI OIL OPERATIONS, INC.

Lease Name RICHARDS License No. 5259

NE 1/4 Quarter Sec. 6 Twp. 11 S Rng. 20 E/W

County ELLIS Docket No. D-26,924

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Allen Bangert

Title PROD. SUPT Date 7-18-2001

Subscribed and sworn to before me this 18 day of July, 2001.

Notary Public Sherril Underwood

Date Commission Expires 10-30-2004

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> IGPA
<input type="checkbox"/>		<input type="checkbox"/> Other (specify)

SHERRIL UNDERWOOD
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES

JUL 19 2001
7-19-2001
CONSERVATION DIVISION

Operator Name MAI OIL OPERATIONS, INC.

Lease Name RICHARDS

Well # 10

Sec. 6 Twp. 11 Rge. 20

East

County ELLIS

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run:
 COMPENSATED NEUTRON*DENSIY
 DUAL INDUCTION

Name	Formation (Top), Depth and Datums	
	Top	Datum
ANHYDRITE	1493	552
TOPEKA	3073	-1028
HEEBNER	3279	-1234
TORONTO	3300	-1255
LANSING	3317	-1272
BKC	3541	-1496
SIMPSON SHALE	3603	-1558
ARBUCKLE	3622	-1577
RTD	3720	-1675

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12 1/4"	8 5/8"	24	219'	60-40-POZ	150	2% GEL 3% CC
PRODUCTION	7 7/8"	5 1/2"	14	3718'	ASC	190	1/8# PPS FLOCEL

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off-Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3659 1/2 - 61 1/2'	256 GAL. 15% HCL	
4	3640 - 44'	500 GAL. 15% HCL	

TUBING RECORD Size 2 7/8" Set At 3680' Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SLD or Inj. 5-1-2001 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	15		30		

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval 3640-44'
3659 1/2 - 61 1/2'

ALLIED CEMENTING CO., INC.

Federal Tax I.D.# ~~42-55738~~

15-051-25082-00-00

SERVICE POINT: R

TO P.O. BOX 31
RUSSELL, KANSAS 67665

DATE <u>3/31/01</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>1:30 A.M.</u>	JOB START	JOB FINISH <u>7:15 A.M.</u>
LEASE <u>Richards</u> WELL # <u>10</u>			LOCATION <u>Ellis N to Coline 1w 1s</u>		COUNTY <u>Ellis</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>1/2 E S 1/4 T 20</u>				

CONTRACTOR Vonfeldt Drig.

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH 2K

TUBING SIZE DEPTH 211

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 10'

PERFS.

DISPLACEMENT 12 3/4 Bbl

EQUIPMENT

PUMP TRUCK CEMENTER Paul

153 HELPER Bill

BULK TRUCK

100 DRIVER Shane

BULK TRUCK

DRIVER

OWNER ORIGINAL

CEMENT

AMOUNT ORDERED 150 00/40 3/4 1/2 2/8 1/4

COMMON	<u>90</u>	@	<u>6.35</u>	<u>571.50</u>
POZMIX	<u>60</u>	@	<u>3.25</u>	<u>195.00</u>
GEL	<u>3</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	@	<u>28.00</u>	<u>140.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>158</u>	@	<u>1.05</u>	<u>165.90</u>
MILEAGE	<u>44</u>	<u>1/50</u>	<u>1/100</u>	<u>202.24</u>
TOTAL				<u>1303.14</u>

REMARKS:

SERVICE

Cement Circulated

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>470.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>32</u>	@ <u>3.00</u> <u>96.00</u>
PLUG	<u>858 Surf</u>	@ <u>45.00</u>
	@	
	@	

CHARGE TO: Mai Oil

STREET _____

CITY _____ STATE _____ ZIP _____

RECEIVED
KANSAS CORPORATION SERVICE DIV

JUL 19 2001 FLOAT EQUIPMENT
7-19-2001

CONSERVATION DIVISION

TOTAL 611.00

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment
and furnish cementer and helper to assist owner or

TOTAL _____

ALLIED CEMENTING CO., INC.

Federal Tax I.D.# ~~02-00070660~~

TO P.O. BOX 31
RUSSELL, KANSAS 67665

15-051-25082-00-00 SERVICE POINT:
K

DATE <u>4-7-01</u>	SEC. <u>6</u>	TWP. <u>11</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>9:30pm</u>	JOB FINISH <u>10:15pm</u>
LEASE <u>Richards</u> WELL # <u>10</u>			LOCATION <u>Paler S to Co line</u>		COUNTY <u>Ellis</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)			<u>Zw 15 1/2 E site</u>				

CONTRACTOR <u>Vonfeldt Inc</u>	OWNER <u>ORIGINAL</u>
TYPE OF JOB <u>Production string</u>	CEMENT
HOLE SIZE <u>7 1/8</u>	T.D. <u>3720</u>
CASING SIZE <u>5 1/2</u>	DEPTH <u>3718</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE <u>X</u>	SHOE JOINT <u>32</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>90 bbl</u>	
EQUIPMENT	
PUMP TRUCK # <u>345</u>	CEMENTER <u>Maule</u>
	HELPER <u>Dave</u>
BULK TRUCK # <u>282</u>	DRIVER <u>Shane</u>
BULK TRUCK #	DRIVER

AMOUNT ORDERED <u>190 ASC 1/8" flo seal</u>	
<u>3/4 of 170 CFR 2</u>	
<u>500 gal flush</u>	
COMMON <u>100 ASC @ 8.20</u>	<u>1558.00</u>
POZMIX @	
GEL @	
CHLORIDE @	
WFR- <u>500 gals @ 1.00</u>	<u>500.00</u>
CFR-2 <u>138 # @ 5.50</u>	<u>731.50</u>
FLOSEAL <u>24 # @ 1.40</u>	<u>33.60</u>
HANDLING <u>193 @ 1.05</u>	<u>202.65</u>
MILEAGE <u>44 1/2 / mile</u>	<u>247.00</u>
TOTAL <u>3272.75</u>	

REMARKS:

Float Held

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>1080.00</u>
EXTRA FOOTAGE @	
MILEAGE <u>32 @ 3.00</u>	<u>96.00</u>
PLUG <u>5 1/2 @ 50.00</u>	<u>50.00</u>

KANSAS CORPORATION COMMISSION

TOTAL 1226.00

CHARGE TO: Maule
STREET _____
CITY _____ STATE _____ ZIP _____

JUL 19 2001
7-19-2001

FLOAT EQUIPMENT
CONSERVATION DIVISION

<u>5 1/2</u>	@	<u>150.00</u>
<u>Guide Shoe</u>	@	<u>235.00</u>
<u>Insert</u>	@	<u>50.00</u>
<u>7-Cent</u>	@	<u>128.00</u>
<u>Basket</u>	@	<u>1750.00</u>
<u>Port Collet</u>	@	

TOTAL 2613.00

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or

ALLIED CEMENTING CO., INC.

Federal Tax I.D.# ~~48-27888~~

P.O. BOX 31
RUSSELL, KANSAS 67665

15-051-25082-00-00 SERVICE POINT: K

DATE <u>4-16-01</u>	SEC. <u>6</u>	TWP. <u>11</u>	RANGE <u>20W</u>	CALLED OUT	ON LOCATION <u>10:00 am</u>	JOB START <u>11:15 am</u>	JOB FINISH <u>12:15 AM</u>
LEASE <u>Rachawick</u>	WELL # <u>10</u>	LOCATION <u>Palmer SW to line 2W</u>		COUNTY <u>Ellis</u>		STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)				<u>15 Ent</u>			

CONTRACTOR Rapid Well Service
 TYPE OF JOB Part Clean
 HOLE SIZE _____ T.D. _____
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL 1502 _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER _____ ORIGINAL
 CEMENT AMOUNT ORDERED 350 6 9/16 6 7/8 gal
1/4 lb Flosal/SK
used 200 gal

COMMON	<u>120</u>	@	<u>6.35</u>	<u>762.00</u>
POZMIX	<u>80</u>	@	<u>3.25</u>	<u>260.00</u>
GEL	<u>10</u>	@	<u>9.50</u>	<u>95.00</u>
CHLORIDE		@		
<u>Flosal</u>	<u>50#</u>	@	<u>1.40</u>	<u>70.00</u>
		@		
		@		
		@		
		@		
HANDLING	<u>365</u>	@	<u>1.05</u>	<u>383.25</u>
MILEAGE	<u>42.5</u>	@	<u>11.10</u>	<u>467.20</u>
TOTAL				<u>2037.45</u>

EQUIPMENT

PUMP TRUCK CEMENTER Mark
 # 316 HELPER Dave
 BULK TRUCK
 # 254 DRIVER Darin
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

SERVICE

Pressured Cg to 1000# - opened tool
Mixed 200 gal Cg cement - closed
tool Ran 10 ft Cg tubing clean
[Signature]

DEPTH OF JOB	_____		
PUMP TRUCK CHARGE	_____		<u>580.00</u>
EXTRA FOOTAGE	_____	@	_____
MILEAGE	<u>32</u>	@	<u>3.00</u> <u>96.00</u>
PLUG	_____	@	_____
	_____	@	_____
	_____	@	_____
TOTAL <u>676.00</u>			

KANSAS CORPORATION REGISTRATION

CHARGE TO: Mail
 STREET _____
 CITY _____ STATE _____ ZIP _____

JUL 19 2001
 7-19-2001

CONSERVATION DIVISION FLOAT EQUIPMENT

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment
 and furnish cement and helper to assist owner or

TOTAL _____

15-051-25082-00-00



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

P O Box 33
Russell, Ks 67665

ATTN: Allen Bangert

ORIGINAL

Sec6-11-20-Ellis-Ks

Richards #10

UNIVERSITY OF KANSAS

JUL 19 2001

7-19-2001

CONSERVATION DIVISION

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph:785-625-4778 fax:785-625-5620

Mai Oil Operations

Richards #10

Sec6-11-20-Ellis-Ks

"F"

LK

2001.04.04

15-051-25082-00-00

TRILOBITE TESTING L.L.C.

OPERATOR : Mai Oil Operations

DATE 4-3-01

WELL NAME: Richards #10

KB 2045.00 ft

TICKET NO: 14688

DST #1

LOCATION : 6-11-20 Ellis co KS

GR 2040.00 ft

FORMATION: C LKC

INTERVAL : 3342.00 To 3370.00 ft

TD 3370.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13254	13254				PF Fr. 2112 to 2142 hr
SI 45 Range (Psi)	4550.0	4550.0	0.0	0.0	0.0	IS Fr. 2142 to 2227 hr
SF 45 Clock (hrs)	12	12				SF Fr. 2227 to 2312 hr
FS 90 Depth (ft)	3365.0	3365.0	0.0	0.0	0.0	FS Fr. 2312 to 0042 hr

	Field	1	2	3	4	
A. Init Hydro	1658.0	1655.0	0.0	0.0	0.0	T STARTED 1936 hr
B. First Flow	23.0	14.0	0.0	0.0	0.0	T ON BOTM 2110 hr
B1. Final Flow	71.0	66.0	0.0	0.0	0.0	T OPEN 2112 hr
C. In Shut-in	1004.0	994.0	0.0	0.0	0.0	T PULLED 0042 hr
D. Init Flow	130.0	119.0	0.0	0.0	0.0	T OUT 0330 hr
E. Final Flow	177.0	172.0	0.0	0.0	0.0	
F. Fl Shut-in	1004.0	987.0	0.0	0.0	0.0	
G. Final Hydro	1588.0	1579.0	0.0	0.0	0.0	
Inside/Outside	I	I				

RECOVERY

Tot Fluid 375.00 ft of 0.00 ft in DC and 375.00 ft in DP
 375.00 ft of Gassy salt 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 33000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----

Tool Wt.	1000.00 lbs
Wt Set On Packer	2000056.00 lbs
Wt Pulled Loose	0.00 lbs
Initial Str Wt	52000.00 lbs
Unseated Str Wt	55000.00 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	0.00 ft
D.P. Length	3350.00 ft

BLOW DESCRIPTION

Initial Flow:
 Strong bottom of bucket in 21 minutes
 Initial Shut-In:
 No blow back.
 Final Flow:
 Weak building to 7" fair blow.
 Final Shut-In:
 No blow back.

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	45.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Dan Bangle
Co. Rep.	Todd Morgenstern
Contr.	VonFeldt
Rig #	
Unit #	
Pump T.	

SAMPLES:
SENT TO:

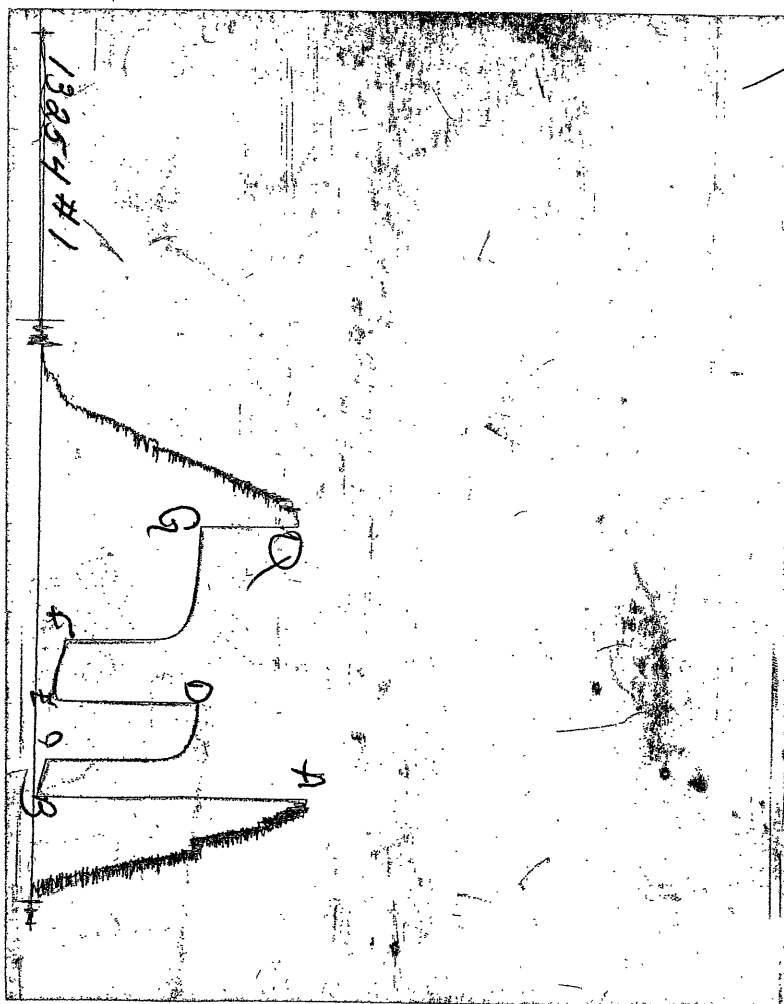
Test Successful: Y

15-051-25082-00-00

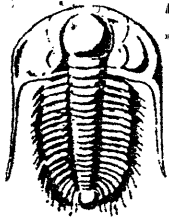
ORIGINAL

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

CHART PAGE



JUL 19 2001
7-19-2001
CONSERVATION DIVISION



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

15-051-25082-00-00

No 14688

Test Ticket

Well Name & No. <u>Richards #10</u>	Test No. <u>1</u>	Date <u>4-3-01</u>
Company <u>Mai Oil Operations</u>	Zone Tested <u>"C" LLC</u>	
Address <u>P.O. Box 33, Russell, Ks. 67665</u>	Elevation <u>2045</u> KB <u>2040</u> GL	
Co. Rep / Geo. <u>Todd Morgenstern cont. Vonfeldt</u>	Est. Ft. of Pay _____	Por. _____ %
Location: Sec. <u>6</u> Twp. <u>11</u> Rge. <u>20</u>	Co. <u>Ellis</u> State <u>Ks</u>	
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____
Evaluation (Y, N) _____		

Interval Tested <u>3342 - 3370</u>	Initial Str Wt./Lbs. <u>52,000</u>	Unseated Str Wt./Lbs. <u>55,000</u>
Anchor Length <u>28</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>56,000</u>
Top Packer Depth <u>3337</u>	Tool Weight <u>1000</u>	
Bottom Packer Depth <u>3342</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>3370</u>	Wt. Pipe Run _____	Drill Collar Run _____
Mud Wt. <u>9.1</u> LCM Vis. <u>45</u> WL <u>8.4</u>	Drill Pipe Size <u>4.5 XH</u>	Ft. Run <u>3350</u>

Blow Description I.E. Strong B.O.B in 21 min.
ISI - No blow back
E.F. - Weak - building to 7" fair blow
FSI - No blow back

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>375</u>			<u>375</u>
Rec. <u>375</u> Feet Of <u>65y S.W.</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 125 @ 60 °F Chlorides 33,000 ppm Recovery Chlorides 3,000 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1658</u>		<u>3030</u>	<u>19:00</u>
(B) First Initial Flow Pressure	<u>23</u>		(depth) <u>3343</u>	T-Started <u>19:36</u>
(C) First Final Flow Pressure	<u>71</u>		PSI Recorder No. <u>13254</u>	T-Open <u>21:12</u>
(D) Initial Shut-In Pressure	<u>1004</u>		PSI (depth) <u>3365</u>	T-Pulled <u>00:42</u>
(E) Second Initial Flow Pressure	<u>130</u>		PSI Recorder No. _____	T-Out <u>03:30</u>
(F) Second Final Flow Pressure	<u>177</u>		PSI (depth) _____	T-Off Location <u>04:00</u>
(G) Final Shut-in Pressure	<u>1004</u>		PSI Initial Opening <u>30</u>	Test <u>700</u>
(Q) Final Hydrostatic Mud	<u>1588</u>		PSI Initial Shut-in <u>45</u>	Jars _____
			Final Flow <u>45</u>	Safety Joint _____
			Final Shut-in <u>90</u>	Straddle _____
				Circ. Sub _____
				Sampler _____
				Extra Packer _____
				Elec. Rec. <u>X</u>
				Mileage <u>34</u>
				Other _____

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 _____

Our Representative D. Dan Bruner

Extra Packer _____
 Elec. Rec. X
 Mileage 34
 Other _____
 TOTAL PRICE \$ 734

15-051-25082-00-00



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**
P O Box 33
Russell, Ks 67665

ATTN: Allen Bangert

Sec6-11-20-Ellis-Ks

Richards #10

Start Date: 2001.04.04 @ 12:40:00
End Date: 2001.04.04 @ 17:41:00
Job Ticket #: 14689 DST #: 2

KANSAS CONSERVATION DIVISION
JUL 19 2001
7-19-2001
CONSERVATION DIVISION

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph:785-625-4778 fax:785-625-5620

Mai Oil Operations

Richards #10

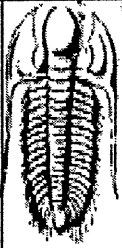
Sec6-11-20-Ellis-Ks

DST #: 2

"F"

LK

2001.04.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 P O Box 33
 Russell, Ks 67665
 ATTN: Allen Bangert

Richards #10
 Sec6-11-20-Ellis-Ks
 Job Ticket: 14689 DST#: 2
 Test Start: 2001.04.04 @ 12:40:00

GENERAL INFORMATION:

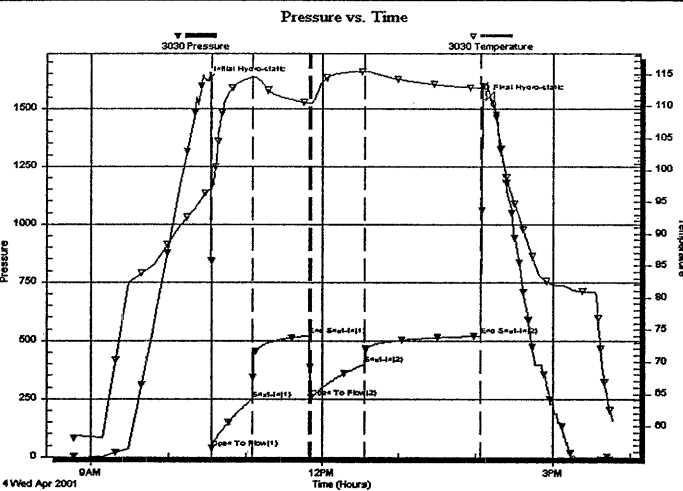
Formation: "F" LK
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:33:30
 Time Test Ended: 17:41:00
 Interval: 3387.00 ft (KB) To 3408.00 ft (KB) (TVD)
 Total Depth: 3408.00 ft (KB)
 Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole
 Tester: Dan Bangle
 Unit No: 21
 Reference Elevations: 2045.00 ft (KB)
 2040.00 ft (CF)
 KB to GRVCF: 5.00 ft

Serial #: 3030

Press@RunDepth: 398.34 psig @ ft (KB) Capacity: 7000.00 psig
 Start Date: 2001.04.04 End Date: 2001.04.04 Last Calib.: 1899.12.30
 Start Time: 08:47:02 End Time: 15:46:30 Time On Btm: 2001.04.04 @ 10:30:00
 Time Off Btm: 2001.04.04 @ 14:08:00

TEST COMMENT: IF-BOB in 4 min
 FF-BOB in 9 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
103	1620.08	96.69	Initial Hydro-static
107	34.38	97.23	Open To Flow (1)
138	246.33	114.50	Shut-In(1)
183	520.87	110.46	End Shut-In(1)
184	252.08	110.43	Open To Flow (2)
227	398.34	115.43	Shut-In(2)
317	520.43	112.80	End Shut-In(2)
321	1539.09	112.71	Final Hydro-static

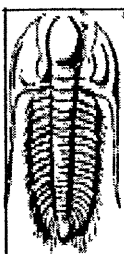
Recovery

Length (ft)	Description	Volume (bbl)
248.00	O&M Cwater 20% to 20% m 60% w	3.48
248.00	OCWTR 20% to 80% w	3.48
372.00	Water R.w. .05 @ 75 = 95000	5.22

Gas Rates

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

15-051-25082-00-00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations
P O Box 33
Russell, Ks 67665
ATTN: Allen Bangert

Richards #10
Sec6-11-20-Ellis-Ks
Job Ticket: 14689
DST#: 2
Test Start: 2001.04.04 @ 12:40:00

Tool Information

Drill Pipe:	Length: 3386.00 ft	Diameter: 3.80 inches	Volume: 47.50 bbl	Tool Weight: 1000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
Drill Pipe Above KB:	5.02 ft			Tool Chased 0.01 ft
Depth to Top Packer:	3397.00 ft			String Weight: Initial 52000.00 lb
Depth to Bottom Packer:	ft			Final 55000.00 lb
Interval between Packers:	ft			
Tool Length:	42.02 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			3382.00	
S.I. Tool	5.00			3387.00	
HYD S.I. Tool	5.00			3392.00	
Packer	5.00			3397.00	16.00 Bottom Of Top Packer
Packer	5.00			3402.00	
Stubb	1.00			3403.00	
Recorder	0.01	3030	Inside	3403.01	
Perforations	15.00			3418.01	
Recorder	0.01	13254	Outside	3418.02	
Bullnose	5.00			3423.02	26.02 Bottom Packers & Anchor
Total Tool Length:	42.02				

RECORDED
KANSAS CONSERVATION
JUL 19 2001
7-19-2001
CONSERVATION

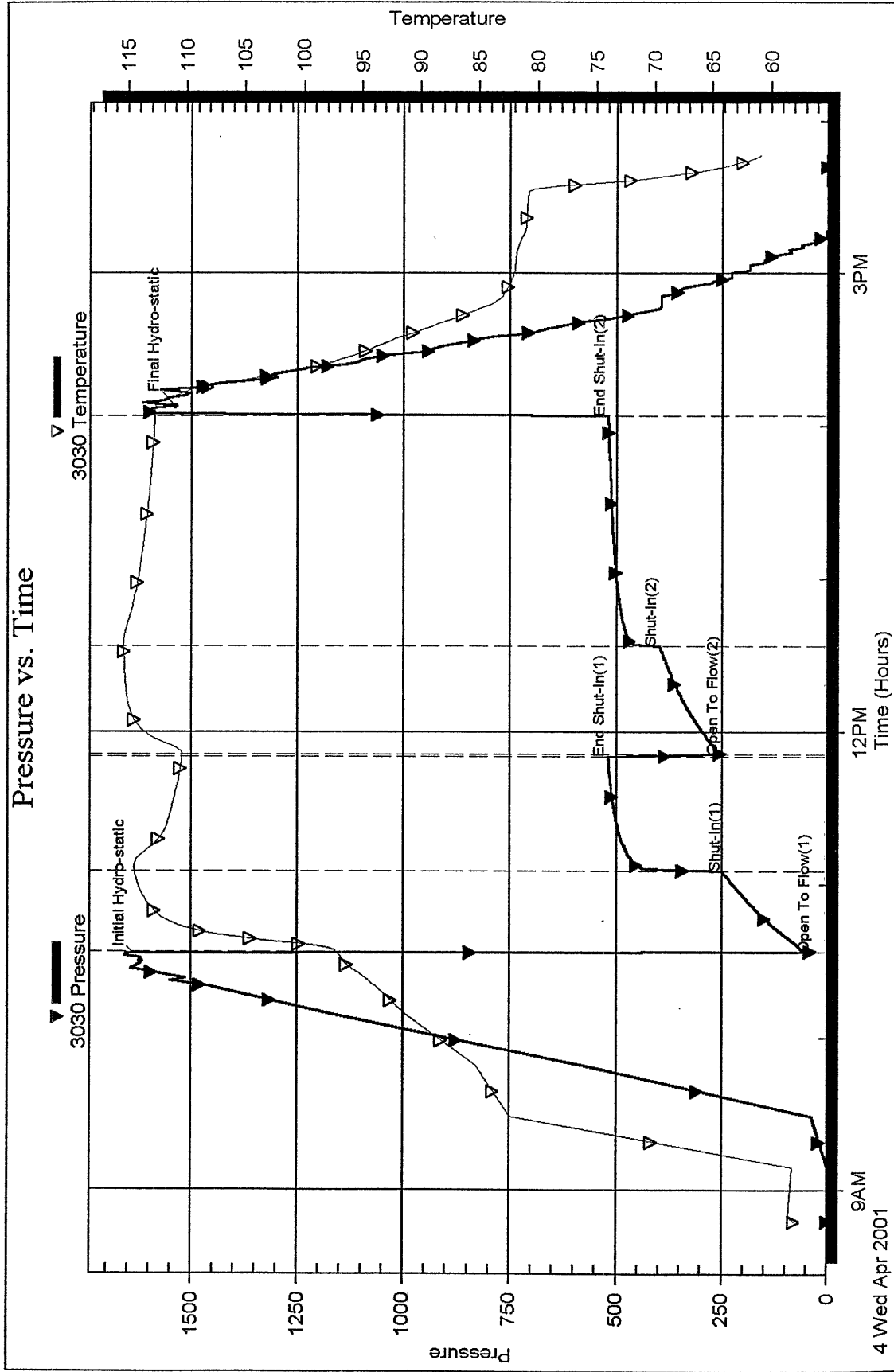
15-051-25082-00-00

Serial #: 3030

Mai Oil Operations

Sec6-11-20-Ellis-Ks

Pressure vs. Time



4 Wed Apr 2001

Trilobite Testing, Inc

Ref. No: 14689

Printed: 2001.04.10 @ 10:21:44 Page 4

15-051-25082-00-00



DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

P O Box 33
Russell, Ks 67665

ATTN: Allen Bangert

Sec6-11-20-Ellis-Ks

Richards #10

Start Date: 2001.04.05 @ 09:08:00

End Date: 2001.04.05 @ 13:59:00

Job Ticket #: 14690 DST #: 3

STATE OF KANSAS
KANSAS CONSERVATION COMMISSION

JUL 19 2001
7-19-2001
CONSERVATION DIV.

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph:785-625-4778 fax:785-625-5620

Mai Oil Operations

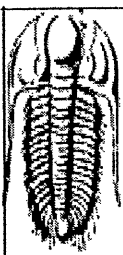
Richards #10

Sec6-11-20-Ellis-Ks

DST #: 3

H-J-K

2001.04.05



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 P O Box 33
 Russell, Ks 67665
 ATTN: Allen Bangert

Richards #10
 Sec6-11-20-Ellis-Ks
 Job Ticket: 14690 DST#: 3
 Test Start: 2001.04.05 @ 09:08:00

GENERAL INFORMATION:

Formation: **H-I-J-K**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: **10:55:00**
 Time Test Ended: **13:59:00**
 Interval: **3444.00 ft (KB) To 3525.00 ft (KB) (TVD)**
 Total Depth: **3525.00 ft (KB)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**

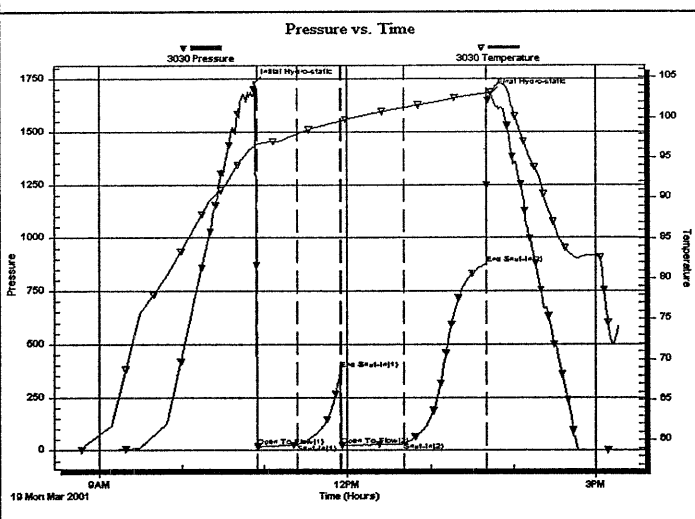
Test Type: **Conventional Bottom Hole**
 Tester: **Dan Bangle**
 Unit No: **21**
 Reference Elevations: **2045.00 ft (KB)**
 2040.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 3030

Press@RunDepth: **32.92 psig @** ft (KB)
 Start Date: **2001.03.19** End Date: **2001.03.19**
 Start Time: **08:47:02** End Time: **15:17:30**

Capacity: **7000.00 psig**
 Last Calib.: **1899.12.30**
 Time On Btm: **2001.03.19 @ 10:53:00**
 Time Off Btm: **2001.03.19 @ 13:43:00**

TEST COMMENT: **120 GIP IF-Weak building to 2" FF-**



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
126	1729.31	96.46	Initial Hydro-static
128	16.74	96.67	Open To Flow (1)
157	25.93	97.92	Shut-In(1)
188	378.91	99.55	End Shut-In(1)
189	20.69	99.58	Open To Flow (2)
234	32.92	101.23	Shut-In(2)
293	872.64	102.98	End Shut-In(2)
296	1678.26	103.17	Final Hydro-static

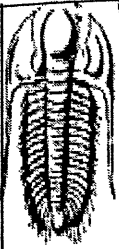
Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 40%o 60%em	0.56

Gas Rates

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

15-051-25082-100.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations

Richards #10

P O Box 33
Russell, Ks 67665

Sec6-11-20-Ellis-Ks

Job Ticket: 14690

DST#: 3

ATTN: Allen Bangert

Test Start: 2001.04.05 @ 09:08:00

Tool Information

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.80 inches	Volume: 48.34 bbl	Tool Weight: 1000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: lb
Drill Pipe Above KB:	23.02 ft			Tool Chased 0.01 ft
Depth to Top Packer:	3439.00 ft			String Weight: Initial 52000.00 lb
Depth to Bottom Packer:	ft			Final 52000.00 lb
Interval between Packers:	ft			
Tool Length:	102.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3424.00	
S.I. Tool	5.00			3429.00	
HYD S.I. Tool	5.00			3434.00	
Packer	5.00			3439.00	16.00 Bottom Of Top Packer
Packer	5.00			3444.00	
Stubb	1.00			3445.00	
Perforations	2.00			3447.00	
C.O. Sub	1.00			3448.00	
Recorder	0.01	3030	Inside	3448.01	
Blank Spacing	61.00			3509.01	
C.O. Sub	1.00			3510.01	
Recorder	0.01	13254	Outside	3510.02	
Perforations	10.00			3520.02	
Bullnose	5.00			3525.02	86.02 Bottom Packers & Anchor

Total Tool Length: 102.02

1048.000000

JUL 19 2001
7-19-2001

CONSERVATION

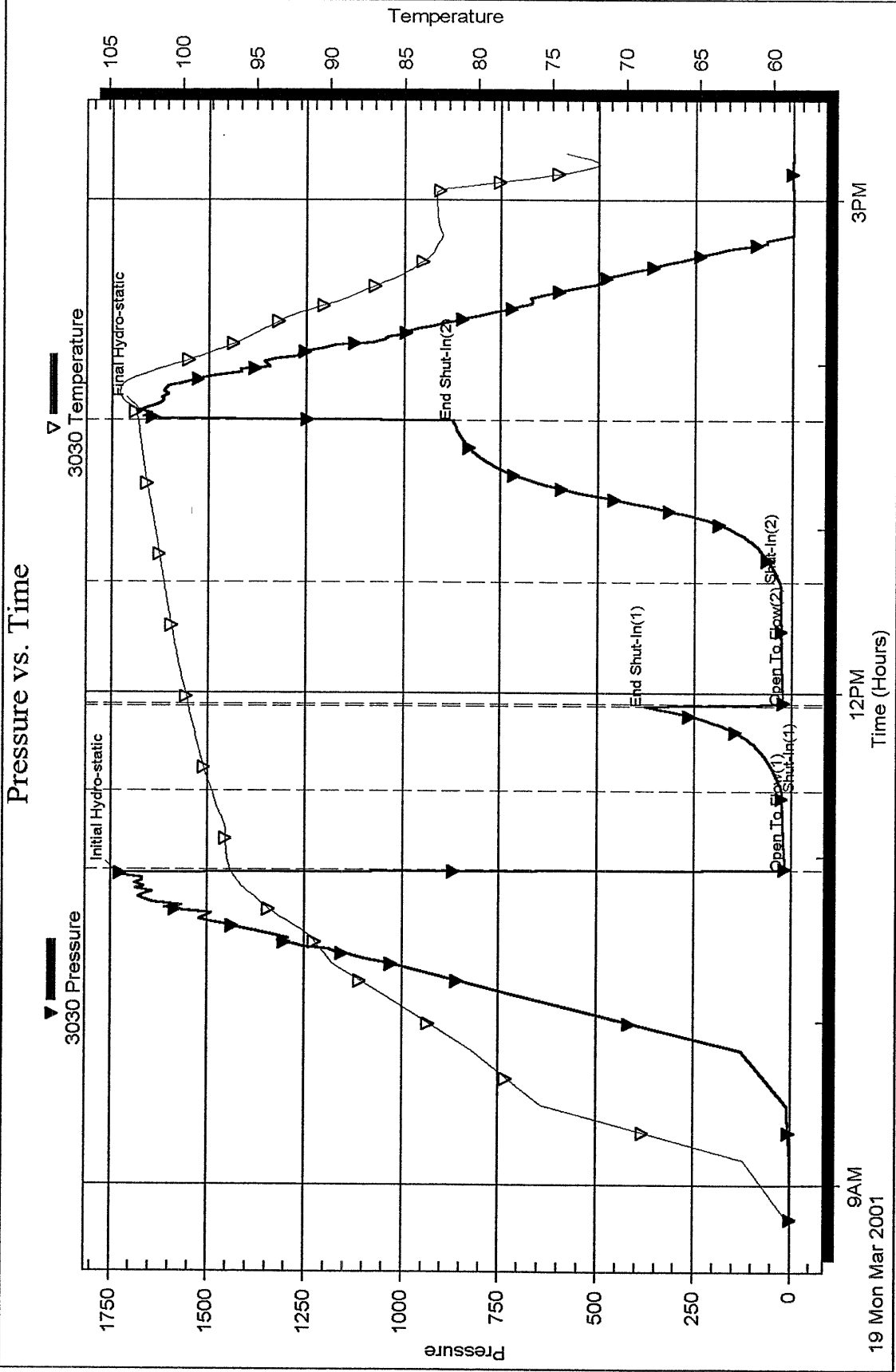
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Serial #: 3030

Mai Oil Operations

Sec6-11-20-Ellis-Ks

Pressure vs. Time



15-051-25082-00-00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Mai Oil Operations**

P O Box 33
Russell, Ks 67665

ATTN: Allen Bangert

Sec6-11-20-Ellis-Ks

Richards #10

Start Date: 2001.04.06 @ 04:50:00

End Date: 2001.04.06 @ 10:47:00

Job Ticket #: 14691 DST #: 4

KANSAS CONSERVATION

JUL 19 2001

7-19-2001

CONSERVATION

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph:785-625-4778 fax:785-625-5620

Mai Oil Operations

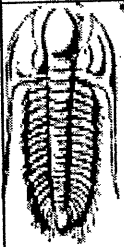
Richards #10

Sec6-11-20-Ellis-Ks

DST #: 4

Arbuckle

2001.04.06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations
P O Box 33
Russell, Ks 67665
ATTN: Allen Bangert

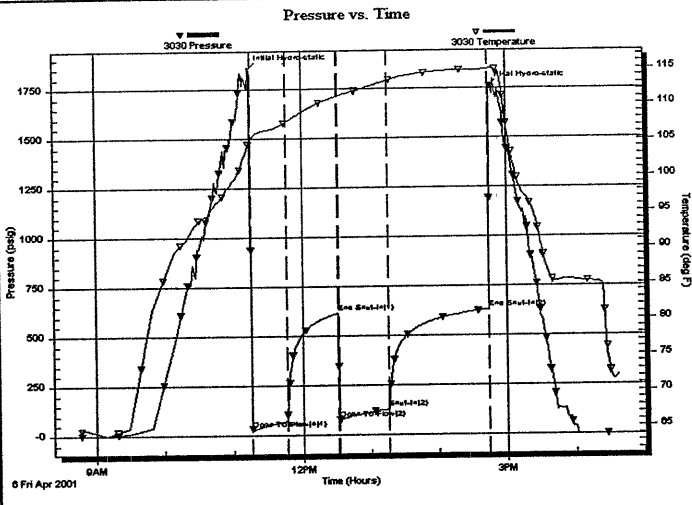
Richards #10
Sec6-11-20-Ellis-Ks
Job Ticket: 14691 DST#: 4
Test Start: 2001.04.06 @ 04:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:15:30
Time Test Ended: 10:47:00
Interval: **3634.00 ft (KB) To 3656.00 ft (KB) (TVD)**
Total Depth: 3656.00 ft (KB)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 21
Reference Elevations: 2045.00 ft (KB)
2040.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: **3030**
Press@RunDepth: 133.36 psig @ ft (KB) Capacity: 7000.00 psig
Start Date: 2001.04.06 End Date: 2001.04.06 Last Calib.: 1899.12.30
Start Time: 08:47:02 End Time: 16:37:00 Time On Btm: 2001.04.06 @ 11:14:00
Time Off Btm: 2001.04.06 @ 14:45:00

TEST COMMENT: 90 GIP IF-Strong BOB in 20 min
FFWeak building to strong BOB in 44 min

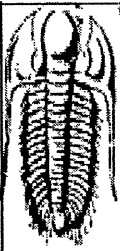


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
147	1853.30	104.62	Initial Hydro-static
149	31.06	105.16	Open To Flow (1)
179	73.84	107.53	Shut-in(1)
224	617.34	111.09	End Shut-in(1)
225	77.80	111.12	Open To Flow (2)
269	133.36	113.29	Shut-in(2)
357	634.06	114.82	End Shut-in(2)
358	1756.21	114.85	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	Clean oil	0.84
216.00	Silty O C Muddy Water 5%o 75%w 20%cm	3.03
	Rw .17 70 = 40000	

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

15-051-25082.00-00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Oil Operations

Richards #10

P O Box 33
Russell, Ks 67665

Sec6-11-20-Ellis-Ks

Job Ticket: 14691

DST#: 4

ATTN: Allen Bangert

Test Start: 2001.04.06 @ 04:50:00

Tool Information

Drill Pipe:	Length: 3631.00 ft	Diameter: 3.80 inches	Volume: 50.93 bbl	Tool Weight: 1000.00 lb
Drill Collar:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.01 ft	Diameter: 0.01 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
Drill Pipe Above KB:	13.02 ft			Tool Chased 0.01 ft
Depth to Top Packer:	3634.00 ft			String Weight: Initial 52000.00 lb
Depth to Bottom Packer:	ft			Final 54000.00 lb
Interval between Packers:	ft			
Tool Length:	43.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3619.00	
S.I. Tool	5.00			3624.00	
HYD S.I. Tool	5.00			3629.00	
Packer	5.00			3634.00	16.00 Bottom Of Top Packer
Packer	5.00			3639.00	
Stubb	1.00			3640.00	
Perforations	1.00			3641.00	
Recorder	0.01	3030	Inside	3641.01	
Perforations	15.00			3656.01	
Recorder	0.01	13254	Outside	3656.02	
Bullnose	5.00			3661.02	27.02 Bottom Packers & Anchor

Total Tool Length: 43.02

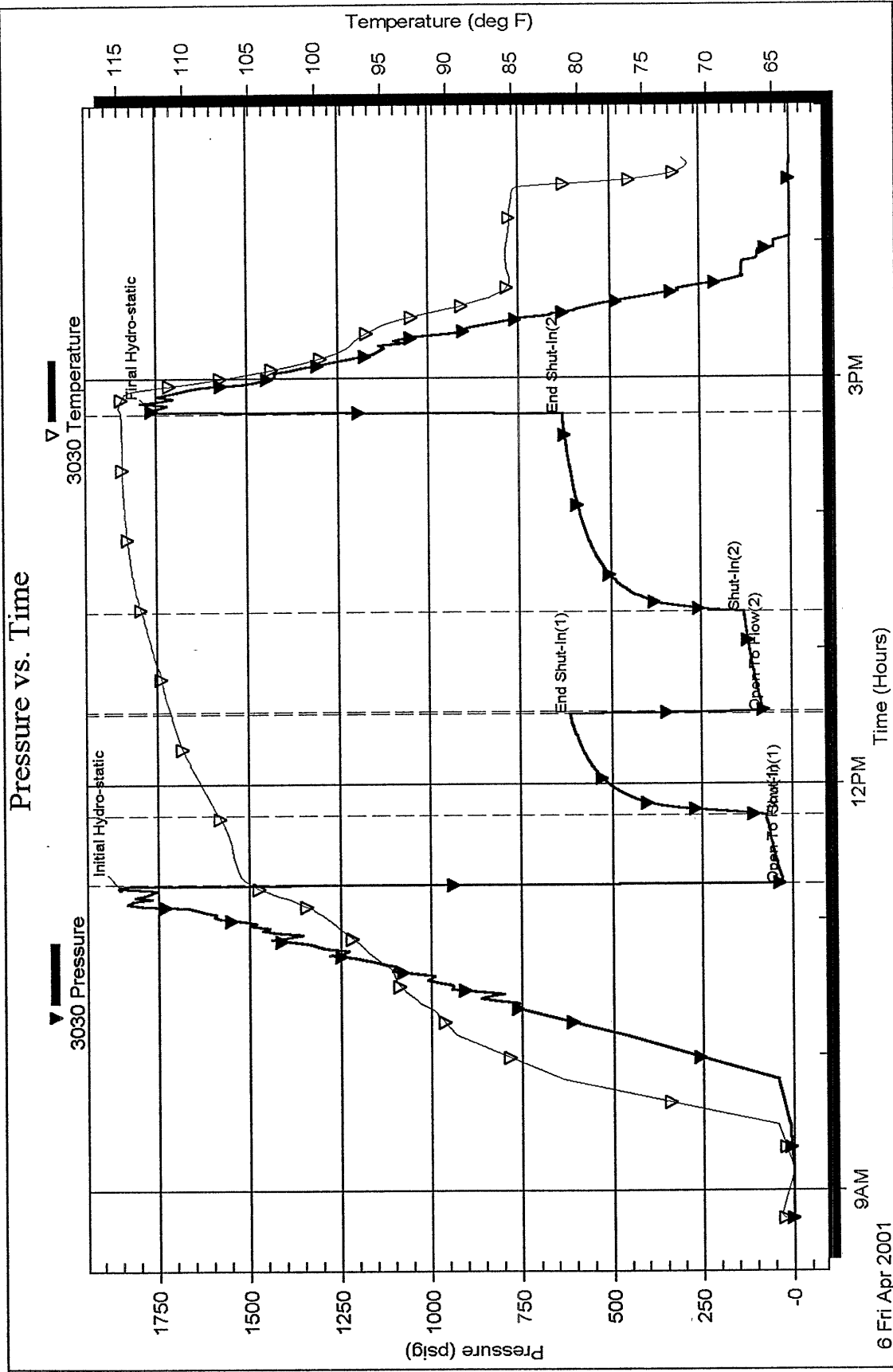
KANSAS CONSERVATION
JUL 19 2001
7-19-2001
CONSERVATION

15-051-25082-00-00

Serial #: 3030

Mai Oil Operations

Sec6-11-20-Ellis-Ks



6 Fri Apr 2001

9AM

12PM

3PM