

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 09 2002

CONSERVATION DIVISION
WICHITA, KS



DRILL STEM TEST REPORT

15-117-20956
Prepared For: **Pickrell Drilling**

Release
100 S Main Ste 505
Wichita KS 67202-3738

NOV 10 2003

From
Confidential

25-30S-41W Stanton

Feiertag K #1

Release
NOV 10 2003
From
Confidential

Start Date: 2001.03.29 @ 16:20:00

End Date: 2001.03.29 @ 18:55:00

Job Ticket #: 13683 DST #: 1

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

Pickrell Drilling

Feiertag K #1

25-30S-41W Stanton

DST #: 1

Keyes

2001.03.29



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pickrell Drilling
100 S Main Ste 505
Wichita KS 67202-3738
ATTN: Arden Ratzlaff

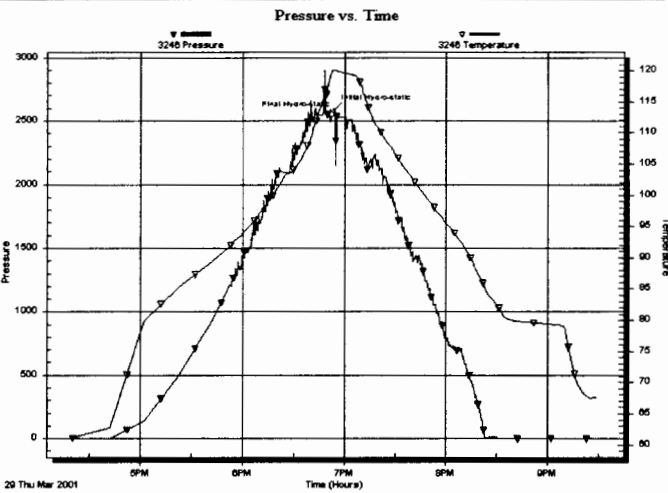
Feiertag K #1
25-30S-41W Stanton
Job Ticket: 13683 **DST#: 1**
Test Start: 2001.03.29 @ 16:20:00

GENERAL INFORMATION:

Formation: **Keyes**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 18:54:00
Time Test Ended: 18:55:00
Interval: **5353.00 ft (KB) To 5394.00 ft (KB) (TVD)**
Total Depth: **5394.00 ft (KB)**
Hole Diameter: **7.88 inches** Hole Condition: **Poor**
Test Type: **Conventional Bottom Hole**
Tester: **Rod Steinbrink**
Unit No: **12**
Reference Elevations: **3370.00 ft (KB)**
3358.00 ft (CF)
KB to GR/CF: **12.00 ft**

Serial #: **3246** Inside
Press@RunDepth: psig @ **5359.00 ft (KB)** Capacity: 7000.00 psig
Start Date: **2001.03.29** End Date: **2001.03.29** Last Calib.: 2001.03.28
Start Time: **16:20:12** End Time: **21:29:25** Time On Btm: **2001.03.29 @ 18:53:55**
Time Off Btm: **2001.03.29 @ 18:54:55**

TEST COMMENT:



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
154	2587.14	120.03	Initial Hydro-static
155	2540.94	119.98	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
580.00	Drig Mud	2.90

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling

Feiertag K #1

100 S Main Ste 505
Wichita KS 67202-3738

25-30S-41W Stanton

Job Ticket: 13683

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2001.03.29 @ 16:20:00

Tool Information

Drill Pipe:	Length: 4779.00 ft	Diameter: 3.80 inches	Volume: 67.04 bbl	Tool Weight: 1800.00 lb
Drill Collar:	Length: 575.00 ft	Diameter: 2.25 inches	Volume: 2.83 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 100000.0 lb
Drill Pipe Above KB:	23.00 ft			Tool Chased 10.00 ft
Depth to Top Packer:	5353.00 ft			String Weight: Initial 78000.00 lb
Depth to Bottom Packer:	ft			Final 80000.00 lb
Interval between Packers:	ft			
Tool Length:	63.00 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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S.I. Tool	5.00			5336.00	
HMV	5.00			5341.00	
Jars	5.00			5346.00	
Safety Joint	2.00			5348.00	
Packer	5.00			5353.00	22.00 Bottom Of Top Packer
Packer	5.00			5358.00	
Stubb	1.00			5359.00	
Recorder	0.00	3246	Inside	5359.00	
Perforations	30.00			5389.00	
Recorder	0.00	13339	Outside	5389.00	
Bullnose	5.00			5394.00	41.00 Bottom Packers & Anchor

Total Tool Length: 63.00

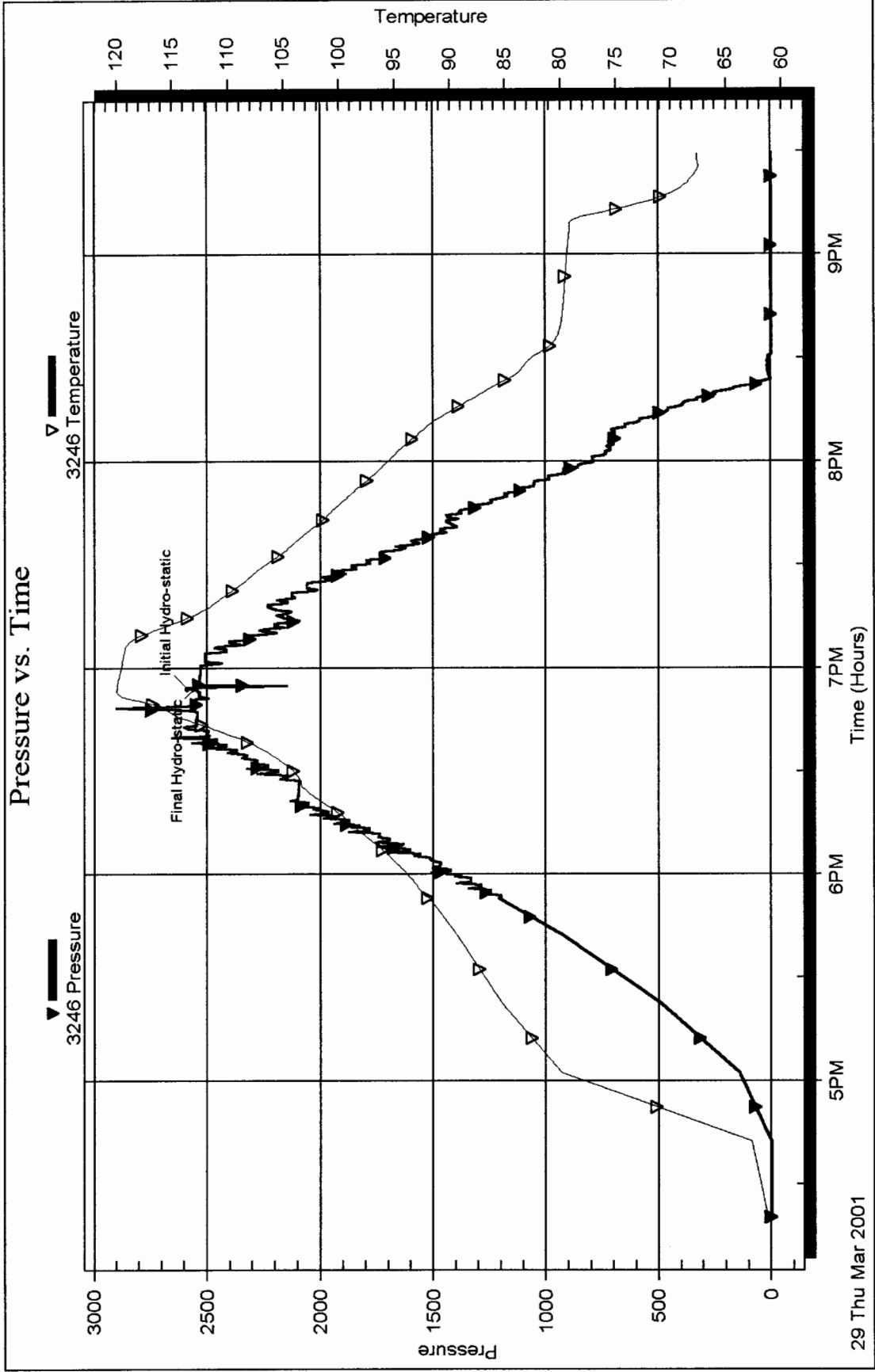
Serial #: 3246

Inside

Pickrell Drilling

25-30S-41W Stanton

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Pickrell Drilling**

100 S Main Ste 505
Wichita KS 67202-3738

ATTN: Arden Ratzlaff

25-30S-41W Stanton

Feiertag K #1

Start Date:

End Date:

Job Ticket #:

DST #: 2

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

Pickrell Drilling

Feiertag K #1

25-30S-41W Stanton

DST #: 2



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pickrell Drilling
100 S Main Ste 505
Wichita KS 67202-3738
ATTN: Arden Ratzlaff

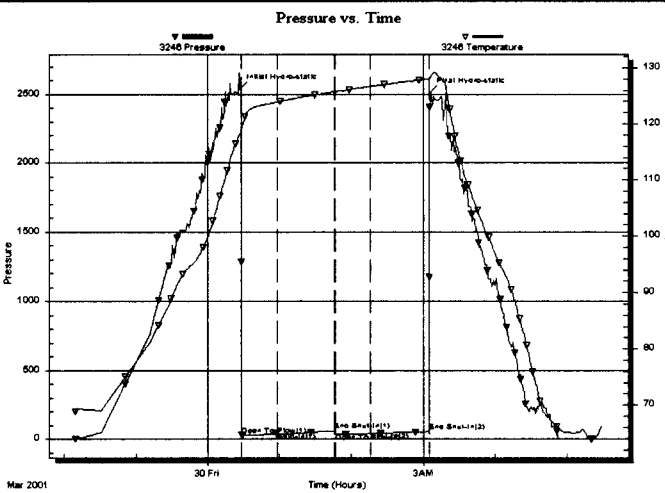
Feiertag K #1
25-30S-41W Stanton
Job Ticket: **DST#: 2**
Test Start:

GENERAL INFORMATION:

Formation:
Deviated: No Whipstock: ft (KB) Test Type:
Time Tool Opened: Tester:
Time Test Ended: Unit No:
Interval: ft (KB) To ft (KB) (TVD) Reference Elevations: 3370.00 ft (KB)
Total Depth: ft (KB) 3358.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 12.00 ft

Serial #: 3246 Inside
Press@RunDepth: 40.68 psig @ 5318.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.03.29 End Date: 2001.03.30 Last Calib.: 2001.03.28
Start Time: 22:09:12 End Time: 05:29:25 Time On Btm: 2001.03.30 @ 00:27:10
Time Off Btm: 2001.03.30 @ 03:05:55

TEST COMMENT:



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
138	2536.57	118.24	Initial Hydro-static
140	23.60	119.06	Open To Flow (1)
170	40.04	123.93	Shut-in(1)
217	59.87	125.76	End Shut-in(1)
218	34.25	125.81	Open To Flow (2)
247	40.68	126.72	Shut-in(2)
296	53.66	128.03	End Shut-in(2)
297	2511.08	128.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig. Mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pickrell Drilling
100 S Main Ste 505
Wichita KS 67202-3738
ATTN: Arden Ratzlaff

Feiertag K #1
25-30S-41W Stanton
Job Ticket: **DST#: 2**
Test Start:

Tool Information

Drill Pipe:	Length: 4717.00 ft	Diameter: 3.80 inches	Volume: 66.17 bbl	Tool Weight: 1800.00 lb
Drill Collar:	Length: 575.00 ft	Diameter: 2.25 inches	Volume: 2.83 bbl	Weight set on Packer: 30000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 120000.0 lb
Drill Pipe Above KB:	2.00 ft			Tool Chased 0.00 ft
Depth to Top Packer:	5312.00 ft			String Weight: Initial 78000.00 lb
Depth to Bottom Packer:	ft			Final 78000.00 lb
Interval between Packers:	ft			
Tool Length:	109.00 ft			
Number of Packers:	1	Diameter: inches		

Tool Comments

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
S.I. Tool	5.00			5295.00	
HMV	5.00			5300.00	
Jars	5.00			5305.00	
Safety Joint	2.00			5307.00	
Packer	5.00			5312.00	22.00 Bottom Of Top Packer
Packer	5.00			5317.00	
Stubb	1.00			5318.00	
Recorder	0.00	3246	Inside	5318.00	
Perforations	12.00			5330.00	
C.O. Sub	1.00			5331.00	
Anchor	62.00			5393.00	
C.O. Sub	1.00			5394.00	
Recorder	0.00	13339	Outside	5394.00	
Bullnose	5.00			5399.00	87.00 Bottom Packers & Anchor

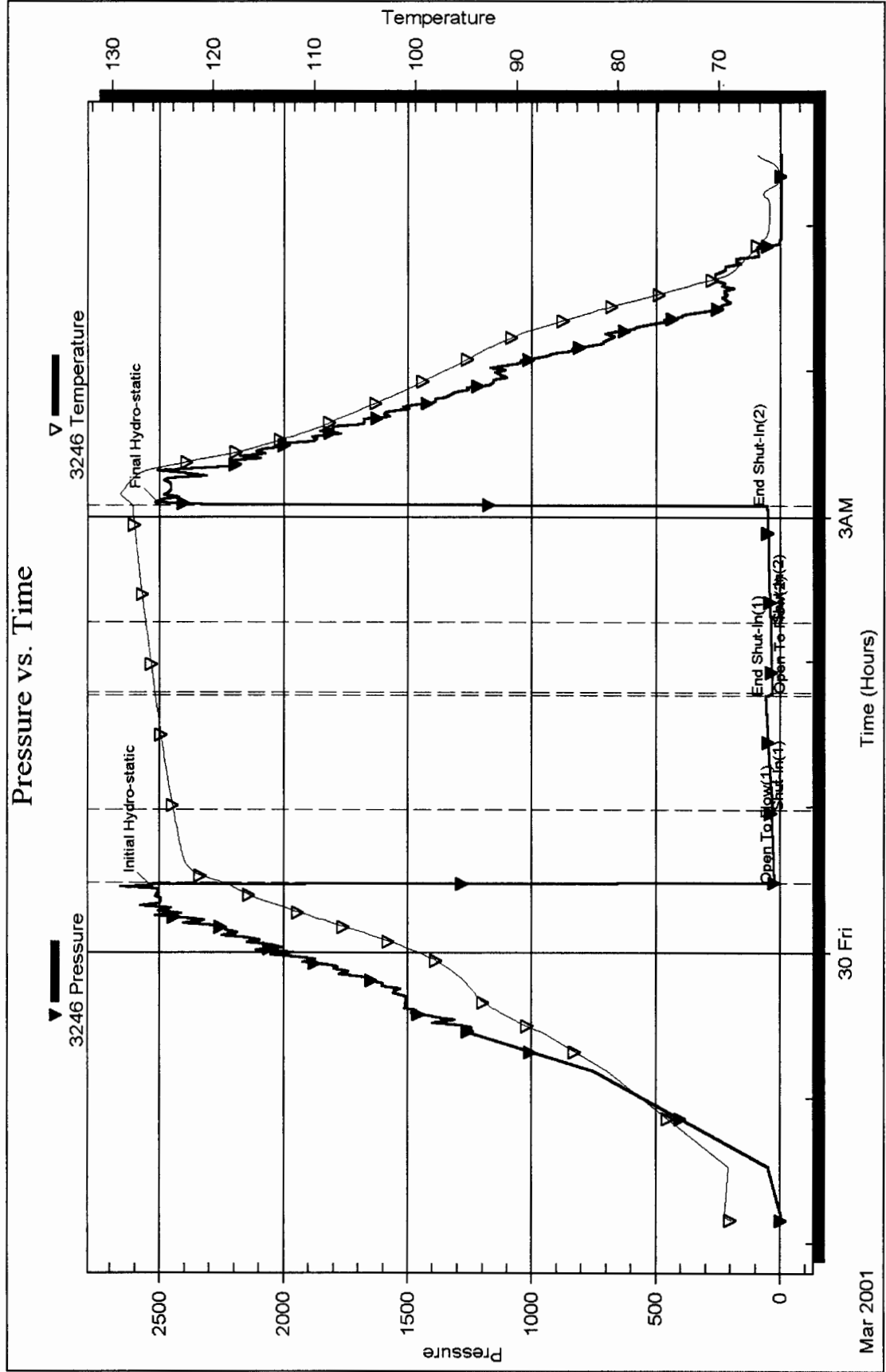
Total Tool Length: 109.00

Serial #: 3246

Inside

Pickrell Drilling

25-30S-41W Stanton



TRILOBITE TESTING L.L.C.

OPERATOR : Pickrell Drilling DATE 3-30-01
 WELL NAME: Feiertag K #1 KB 3370.00 ft TICKET NO: 13685 DST #3
 LOCATION : 25-30s-41w Stanton co KS GR 3358.00 ft FORMATION: Lower Keyes
 INTERVAL : 5399.00 To 5421.00 ft TD 5421.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339				PF Fr. 1830 to 1900 hr
SI 60 Range (Psi)	4000.0	4000.0	0.0	0.0	0.0	IS Fr. 1900 to 2000 hr
SF 30 Clock (hrs)	12	12				SF Fr. 2000 to 2030 hr
FS 120 Depth(ft)	5416.0	5416.0	0.0	0.0	0.0	FS Fr. 2030 to 2230 hr

	Field	1	2	3	4	
A. Init Hydro	2602.0	2591.0	0.0	0.0	0.0	T STARTED 1630 hr
B. First Flow	939.0	941.0	0.0	0.0	0.0	T ON BOTM 1825 hr
Bl. Final Flow	1110.0	1206.0	0.0	0.0	0.0	T OPEN 1830 hr
C. In Shut-in	1240.0	1259.0	0.0	0.0	0.0	T PULLED 2230 hr
D. Init Flow	1240.0	1244.0	0.0	0.0	0.0	T OUT 0230 hr
E. Final Flow	1261.0	1252.0	0.0	0.0	0.0	
F. Fl Shut-in	1281.0	1280.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2443.0	2437.0	0.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	I	I				Wt Set On Packer 30000.00 lbs

RECOVERY

Tot Fluid	0.00 ft of	0.00 ft in DC and	0.00 ft in DP		Unseated Str Wt	100000.00 lbs
0.00	ft of Oil & Gas to surface				Bot Choke	0.75 in
0.00	ft of				Hole Size	7.78 in
0.00	ft of				D Col. ID	2.25 in
0.00	ft of				D. Pipe ID	3.80 in
0.00	ft of				D.C. Length	575.00 ft
0.00	ft of				D.P. Length	4809.00 ft
0.00	ft of					
0.00	ft of					

SALINITY 0.00 P.P.M. A.P.I. Gravity 42.00

BLOW DESCRIPTION

Initial Flow:
 Off bottom immediately. Gas to surface in 6 minutes. Oil to surface in 20 minutes.
 Initial Shut-In:
 Blow through out
 Final Flow:
 Flow off Gassy oil throughout
 Reversed out 42 bbls. to transport.

SAMPLES:
 SENT TO:

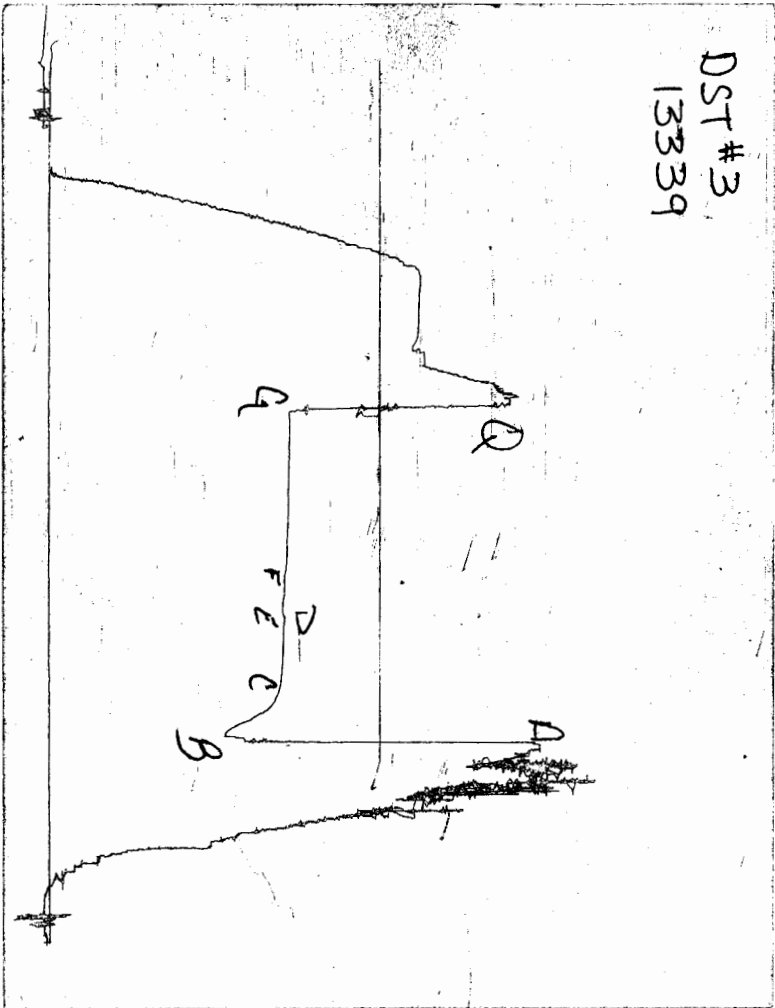
MUD DATA-----
 Mud Type Chemical
 Weight 8.90 lb/cf
 Vis. 50.00 S/L
 W.L. 8.10 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 140.00 F
 Hole Condition
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out
 Tool Chased
 Tester Rod Steinbrink
 Co. Rep. Arden Ratzlaff
 Contr. Murfin
 Rig # 25
 Unit #
 Pump T.

Test Successful: Y

CHART PAGE

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

DST # 3
13339



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13685

Test Ticket

Well Name & No.	<u>Feiertag K #1</u>	Test No.	<u>3</u>	Date	<u>3-30-01</u>		
Company	<u>Pickrell Drilling</u>	Zone Tested	<u>Lwr. Keyes</u>				
Address	<u>100 S. Main Ste 505 Wichita, KS. 67202-3738</u>		Elevation	<u>3370</u>	KB <u>3353</u> GL		
Co. Rep / Geo.	<u>Arden Ratzlaff</u>	Cont.	<u>Murfin #25</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %		
Location: Sec.	<u>25</u>	Twp.	<u>30^s</u>	Rge.	<u>41^w</u> Co. <u>Stanton</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	<u>5399 - 5421</u>	Initial Str Wt./Lbs.	<u>78,000</u>	Unseated Str Wt./Lbs.	<u>100,000</u>
Anchor Length	<u>22'</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>140,000</u>
Top Packer Depth	<u>5394</u>	Tool Weight	<u>1,800</u>		
Bottom Packer Depth	<u>5399</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Total Depth	<u>5421</u>	Wt. Pipe Run	<u> </u>	Drill Collar Run	<u>575'</u>
Mud Wt.	<u>8.9</u> LCM <u>7#</u> Vis. <u>50</u> WL <u>8.1</u>	Drill Pipe Size	<u>4 1/2" XH</u>	Ft. Run	<u>4809</u> 3909
Blow Description	<u>IF: OFF btm immed. GTS - 6 mins DTS - 20 mins.</u> <u>ISI: Blow thru. out.</u> <u>FF: Flow off Gassy Oil thru.</u> <u>Reversed Out 42 bbls. to Transport</u>				

Recovery — Total Feet	<u> </u>	GIP <u>0 & GTS</u>	Ft. in DC	<u> </u>	Ft. in DP	<u> </u>		
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		
Rec.	<u> </u> Feet Of	<u> </u>	%gas	%oil	%water	%mud		
BHT	<u>140°</u>	°F Gravity	<u>41</u>	°API @	<u>50°</u>	°F Corrected Gravity	<u>42</u>	°API
RW	<u> </u>	@	<u> </u>	°F Chlorides	<u> </u>	ppm Recovery	Chlorides <u>1400</u>	ppm System

(A) Initial Hydrostatic Mud	<u>2602</u>	AK-1	Alpine	PSI Recorder No.	<u>3246</u>	T-On Location	<u>1600</u>
(B) First Initial Flow Pressure	<u>939</u>			PSI (depth)	<u>5400</u>	T-Started	<u>1630</u>
(C) First Final Flow Pressure	<u>1110</u>			PSI Recorder No.	<u>13339</u>	T-Open	<u>1830</u>
(D) Initial Shut-In Pressure	<u>1240</u>			PSI (depth)	<u>5416</u>	T-Pulled	<u>2230</u>
(E) Second Initial Flow Pressure	<u>1240</u>			PSI Recorder No.	<u> </u>	T-Out	<u>0230</u>
(F) Second Final Flow Pressure	<u>1261</u>			PSI (depth)	<u> </u>	T-Off Location	<u>0400</u>
(G) Final Shut-in Pressure	<u>1281</u>			PSI Initial Opening	<u>30</u>	Test	<u> </u>
(Q) Final Hydrostatic Mud	<u>2443</u>			PSI Initial Shut-in	<u>60</u>	Jars	<u>X</u>
				Final Flow	<u>30</u>	Safety Joint	<u>X</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 Arden Ratzlaff
Our Representative Rod Steinbrink

Circ. Sub X 35.00
Sampler
Extra Packer
Elec. Rec. X
Mileage
Other
TOTAL PRICE \$