



DRILL STEM TEST REPORT

Prepared For: **Circle Star Operating Corp**

7065 Confederate Pk Rd
Suite 102
Fort Worth TX 76108

ATTN: Jayme Wollison , Chr

13-11s-22w Trego,KS

Lynd Family Trust #13-2

Start Date: 2014.05.30 @ 10:50:47

End Date: 2014.05.30 @ 17:56:41

Job Ticket #: 59304 DST #: 1

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

Printed: 2014.06.02 @ 13:25:07



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Circle Star Operating Corp
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 ATTN: Jayme Wollison, Chr

Lynd Family Trust #13-2

13-11s-22w Trego,KS

Job Ticket: 59304 **DST#: 1**
 Test Start: 2014.05.30 @ 10:50:47

GENERAL INFORMATION:

Formation: **LKC C-F**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:42:42
 Time Test Ended: 17:56:41
 Interval: **3566.00 ft (KB) To 3627.00 ft (KB) (TVD)**
 Total Depth: 3627.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ray Schwager
 Unit No: 70
 Reference Elevations: 2257.00 ft (KB)
 2247.00 ft (CF)
 KB to GR/CF: 10.00 ft

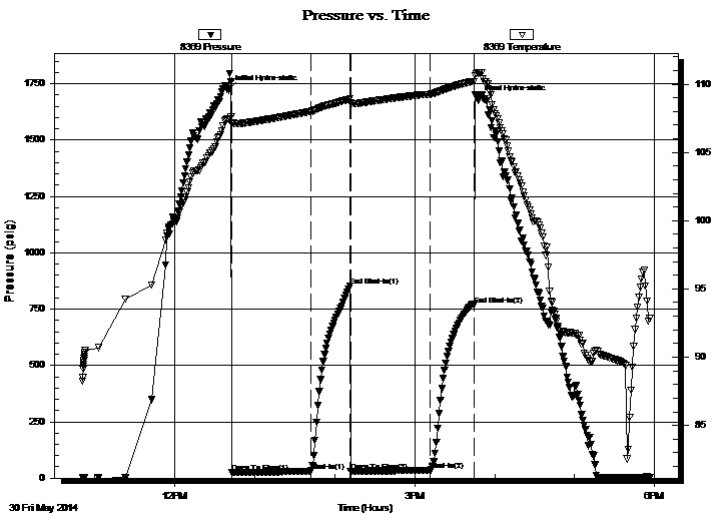
Serial #: 8369

Inside

Press@RunDepth: 34.29 psig @ 3571.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.30 End Date: 2014.05.30 Last Calib.: 2014.05.30
 Start Time: 10:50:47 End Time: 17:56:41 Time On Btm: 2014.05.30 @ 12:40:12
 Time Off Btm: 2014.05.30 @ 15:47:41

TEST COMMENT: 60-IFP-surface bl, died in 34 min
 30-ISIP-no bl
 60-FFP-no bl
 30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1722.37	107.43	Initial Hydro-static
3	24.09	107.10	Open To Flow (1)
62	30.68	107.99	Shut-In(1)
91	851.27	108.91	End Shut-In(1)
92	30.44	108.57	Open To Flow (2)
152	34.29	109.26	Shut-In(2)
184	769.55	110.19	End Shut-In(2)
188	1677.34	110.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 1%O99%M	0.28

Gas Rates

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



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Job Ticket: 59304

DST#: 1

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GENERAL INFORMATION:

Formation: **LKC C-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:42:42

Time Test Ended: 17:56:41

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 70

Interval: 3566.00 ft (KB) To 3627.00 ft (KB) (TVD)

Reference Elevations: 2257.00 ft (KB)

Total Depth: 3627.00 ft (KB) (TVD)

2247.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8700 Outside

Press@RunDepth: psig @ 3571.00 ft (KB)

Start Date: 2014.05.30

End Date:

2014.05.30

Start Time: 10:56:20

End Time:

17:55:44

Capacity: 8000.00 psig

Last Calib.:

2014.05.30

Time On Btm:

Time Off Btm:

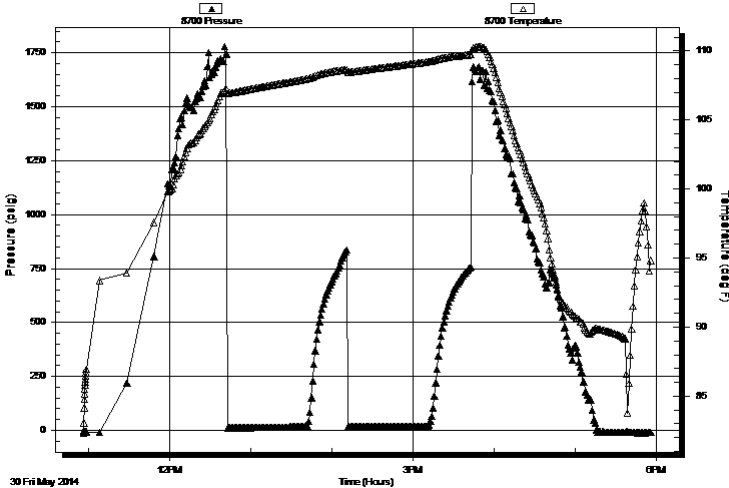
TEST COMMENT: 60-IFP-surface bl, died in 34 min

30-ISIP-no bl

60-FFP-no bl

30-FSIP-no bl

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 1%O99%M	0.28

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Circle Star Operating Corp

Lynd Family Trust #13-2

7065 Confederate Pk Rd
Suite 102
Fort Worth TX 76108
ATTN: Jayme Wollison, Chr

13-11s-22w Trego,KS

Job Ticket: 59304 **DST#: 1**

Test Start: 2014.05.30 @ 10:50:47

Tool Information

Drill Pipe:	Length: 3552.00 ft	Diameter: 3.80 inches	Volume: 49.83 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.83 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3566.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3538.00	
Shut In Tool	5.00			3543.00	
Hydraulic tool	5.00			3548.00	
Jars	5.00			3553.00	
Safety Joint	3.00			3556.00	
Packer	5.00			3561.00	29.00 Bottom Of Top Packer
Packer	5.00			3566.00	
Stubb	1.00			3567.00	
Perforations	4.00			3571.00	
Recorder	0.00	8369	Inside	3571.00	
Recorder	0.00	8700	Outside	3571.00	
Blank Spacing	33.00			3604.00	
Perforations	20.00			3624.00	
Bullnose	3.00			3627.00	61.00 Bottom Packers & Anchor

Total Tool Length: 90.00



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FLUID SUMMARY

Circle Star Operating Corp

Lynd Family Trust #13-2

7065 Confederate Pk Rd
Suite 102
Fort Worth TX 76108

13-11s-22w Trego,KS

Job Ticket: 59304

DST#: 1

ATTN: Jayme Wollison , Chr

Test Start: 2014.05.30 @ 10:50:47

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	SOCM 1%O99%M	0.281

Total Length: 20.00 ft Total Volume: 0.281 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8369

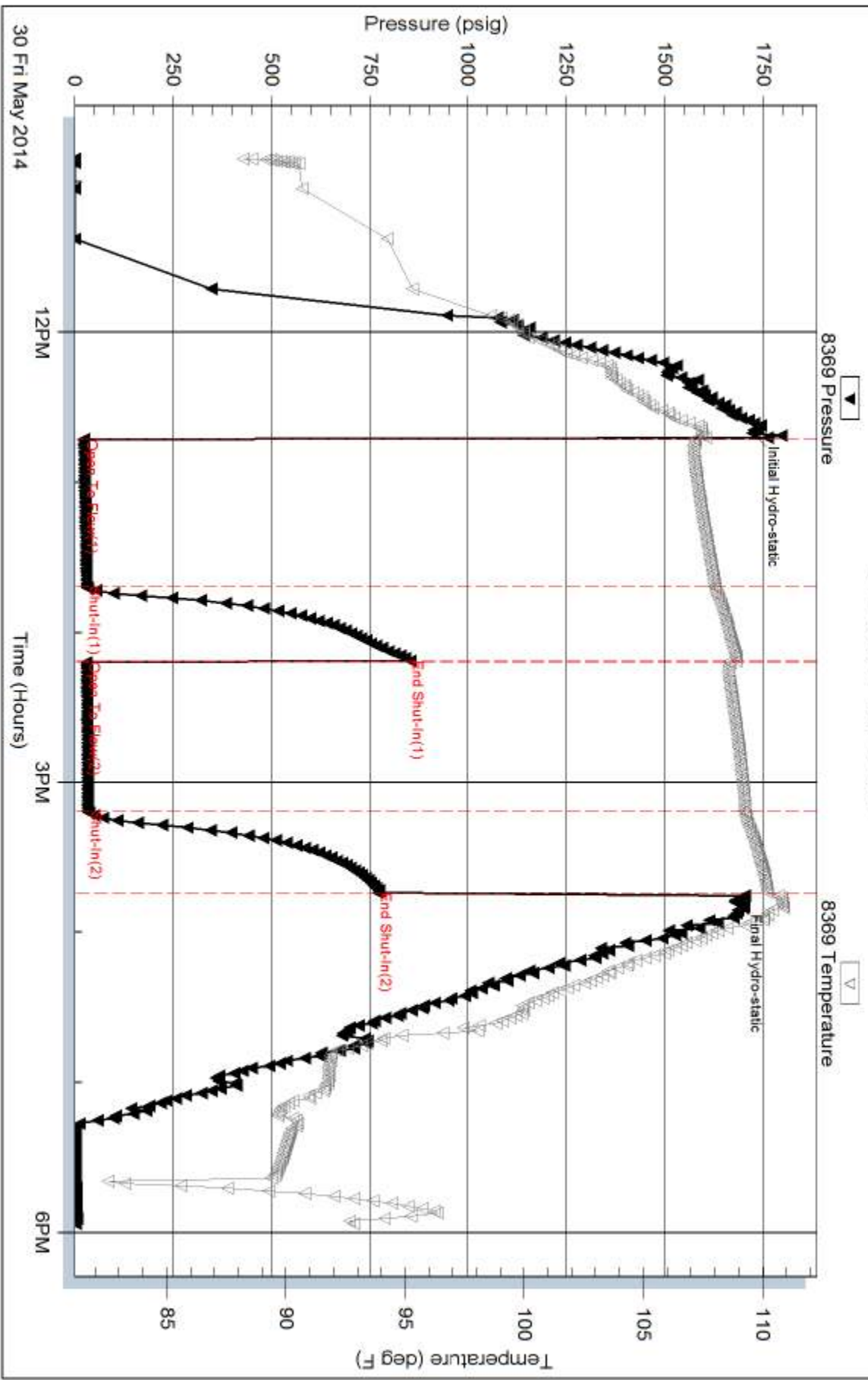
Inside

Circle Star Operating Corp

13-11s-22w Trego,KS

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 59304

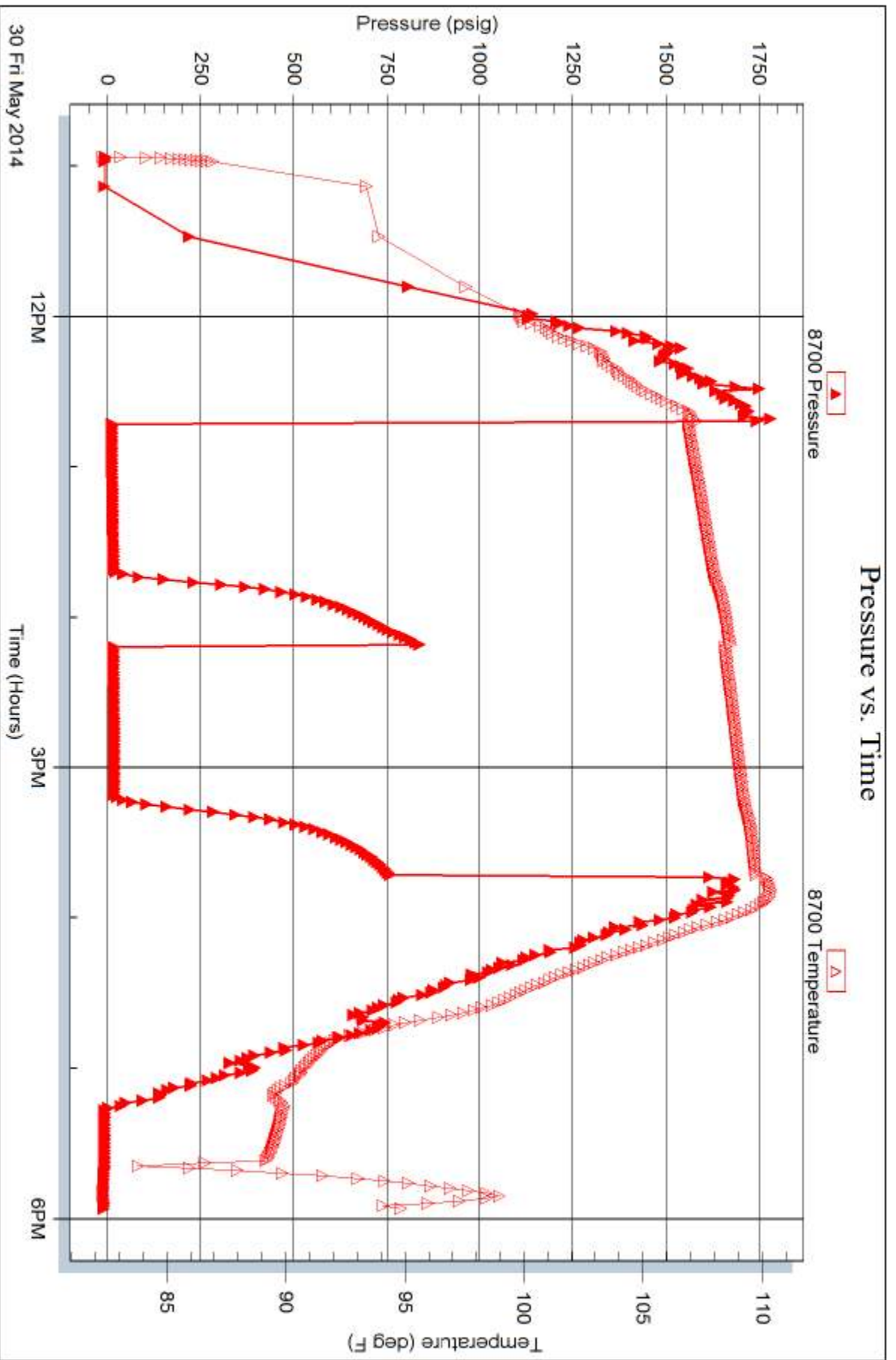
Printed: 2014.06.02 @ 13:25:08

Serial #: 8700

Outside Circle Star Operating Corp

13-11s-22w Trego, KS

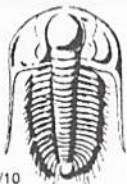
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59304

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59304

4/10

Well Name & No. Lynd Family Trust 13-2 Test No. 1 Date 5-30-14
 Company CIRCLE STAR OPERATING CORP Elevation 2257 KB 2247 GL
 Address 7065 CONFEDERATE PK RD SUITE 102 FORT WORTH TX 76108
 Co. Rep / Geo. JAYME WOLLISON, CHRIS BEAN Rig INTEGRITY 1197
 Location: Sec. 13 Twp. 11^S Rge. 22^W Co. Trego State Ks

Interval Tested 3566-3627 Zone Tested LKC C-F
 Anchor Length 61 Drill Pipe Run 3552 Mud Wt. 9.2
 Top Packer Depth 3561 Drill Collars Run - Vis 56
 Bottom Packer Depth 3566 Wt. Pipe Run - WL 7.8
 Total Depth 3627 Chlorides 2500 ppm System LCM 1#

Blow Description IFP - WEAK SURFACE BLOW, DIED IN 34 MIN
ISIP - NO BLOW
FFP - NO BLOW
FSTP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>50CM</u>		<u>1</u>		<u>99</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 110 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1722</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1020</u>
(B) First Initial Flow <u>24</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1050</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1245</u>
(D) Initial Shut-In <u>851</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1545</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1756</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>76RT</u> 235.60	Comments <u>Loaded Tool 6-14</u>
(G) Final Shut-In <u>769</u>	<input type="checkbox"/> Sampler	<u>9 AM, MILEAGE +</u>
(H) Final Hydrostatic <u>1677</u>	<input type="checkbox"/> Straddle	<u>STANDBY</u>

Initial Open <u>60</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>1d 15h</u>	Total <u>2760.60</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1960.60</u>	

Approved By _____ Our Representative RAY SCHWAGER Thank you

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