



DRILL STEM TEST REPORT

Prepared For: **Tengasco inc.**

PO Box 458
Hays, KS 67601+9744

ATTN: Mike Bair

Albers C #1

24-15s-25w Trego,KS

Start Date: 2013.11.27 @ 14:33:01

End Date: 2013.11.27 @ 21:59:00

Job Ticket #: 54345 DST #: 1

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

Printed: 2013.11.29 @ 11:43:12



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Tengasco inc.
 PO Box 458
 Hays, KS 67601+9744
 ATTN: Mike Bair

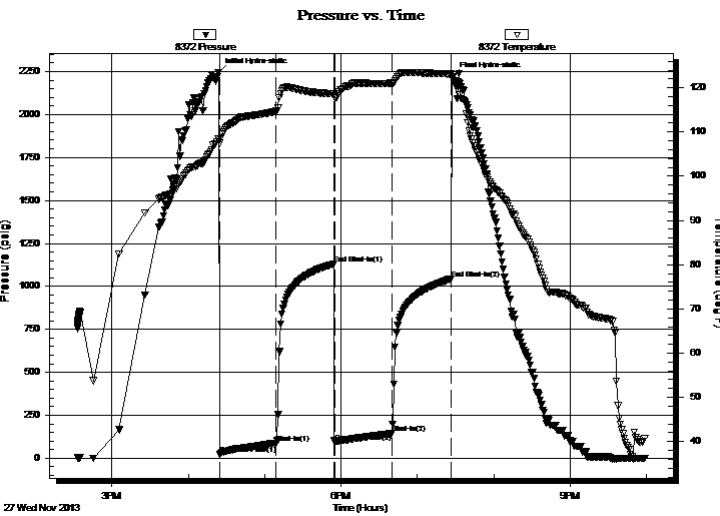
24-15s-25w Trego, KS
Albers C #1
 Job Ticket: 54345 **DST#: 1**
 Test Start: 2013.11.27 @ 14:33:01

GENERAL INFORMATION:

Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:24:30
 Time Test Ended: 21:59:00
 Interval: **4469.00 ft (KB) To 4495.00 ft (KB) (TVD)**
 Total Depth: 4495.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Andy Carreira
 Unit No: 68
 Reference Elevations: 2522.00 ft (KB)
 2515.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8372 Inside
 Press@RunDepth: 144.85 psig @ 4470.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.11.27 End Date: 2013.11.27 Last Calib.: 2013.11.27
 Start Time: 14:33:01 End Time: 21:59:00 Time On Btm: 2013.11.27 @ 16:24:00
 Time Off Btm: 2013.11.27 @ 19:27:30

TEST COMMENT: IF:(45min) 2" blow in 3 min. 6" in 9 min. 10" in 15 min. BOB in 16 min.
 IS:(45min) Return surface blow, died in 25 min.
 FF:(45min) 2" blow in 3 min. 6" in 8 min. 10" in 13 min. BOB in 14 min.
 FS:(45min) Return surface blow, died in 25 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2244.65	108.51	Initial Hydro-static
1	25.10	107.49	Open To Flow (1)
45	88.63	114.68	Shut-In(1)
90	1129.99	118.68	End Shut-In(1)
91	95.55	117.90	Open To Flow (2)
136	144.85	121.04	Shut-In(2)
183	1043.92	123.09	End Shut-In(2)
184	2217.72	122.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	HOCGM g=5% o=20% m=75%	1.26
245.00	CGO g=5% o=95%	3.44
0.00	GIP=455 ft	0.00

Gas Rates

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



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TOOL DIAGRAM

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24-15s-25w Trego,KS
Albers C #1
Job Ticket: 54345 **DST#: 1**
Test Start: 2013.11.27 @ 14:33:01

Tool Information

Drill Pipe:	Length: 4432.00 ft	Diameter: 3.80 inches	Volume: 62.17 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 30.60 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	68000.00 lb
			<u>Total Volume: 62.32 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.60 ft			String Weight: Initial	61000.00 lb
Depth to Top Packer:	4469.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	26.00 ft				
Tool Length:	54.00 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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Change Over Sub	1.00			4442.00	
Shut In Tool	5.00			4447.00	
Hydraulic tool	5.00			4452.00	
Jars	5.00			4457.00	
Safety Joint	3.00			4460.00	
Packer	5.00			4465.00	28.00 Bottom Of Top Packer
Packer	4.00			4469.00	
Stubb	1.00			4470.00	
Recorder	0.00	8372	Inside	4470.00	
Recorder	0.00	8321	Outside	4470.00	
Perforations	22.00			4492.00	
Bullnose	3.00			4495.00	26.00 Bottom Packers & Anchor

Total Tool Length: 54.00



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FLUID SUMMARY

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PO Box 458
Hays, KS 67601+9744
ATTN: Mike Bair

24-15s-25w Trego,KS
Albers C #1
Job Ticket: 54345 **DST#: 1**
Test Start: 2013.11.27 @ 14:33:01

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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	HOCGM g=5% o=20% m=75%	1.264
245.00	CGO g=5% o=95%	3.437
0.00	GIP=455 ft	0.000

Total Length: 355.00 ft Total Volume: 4.701 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8372

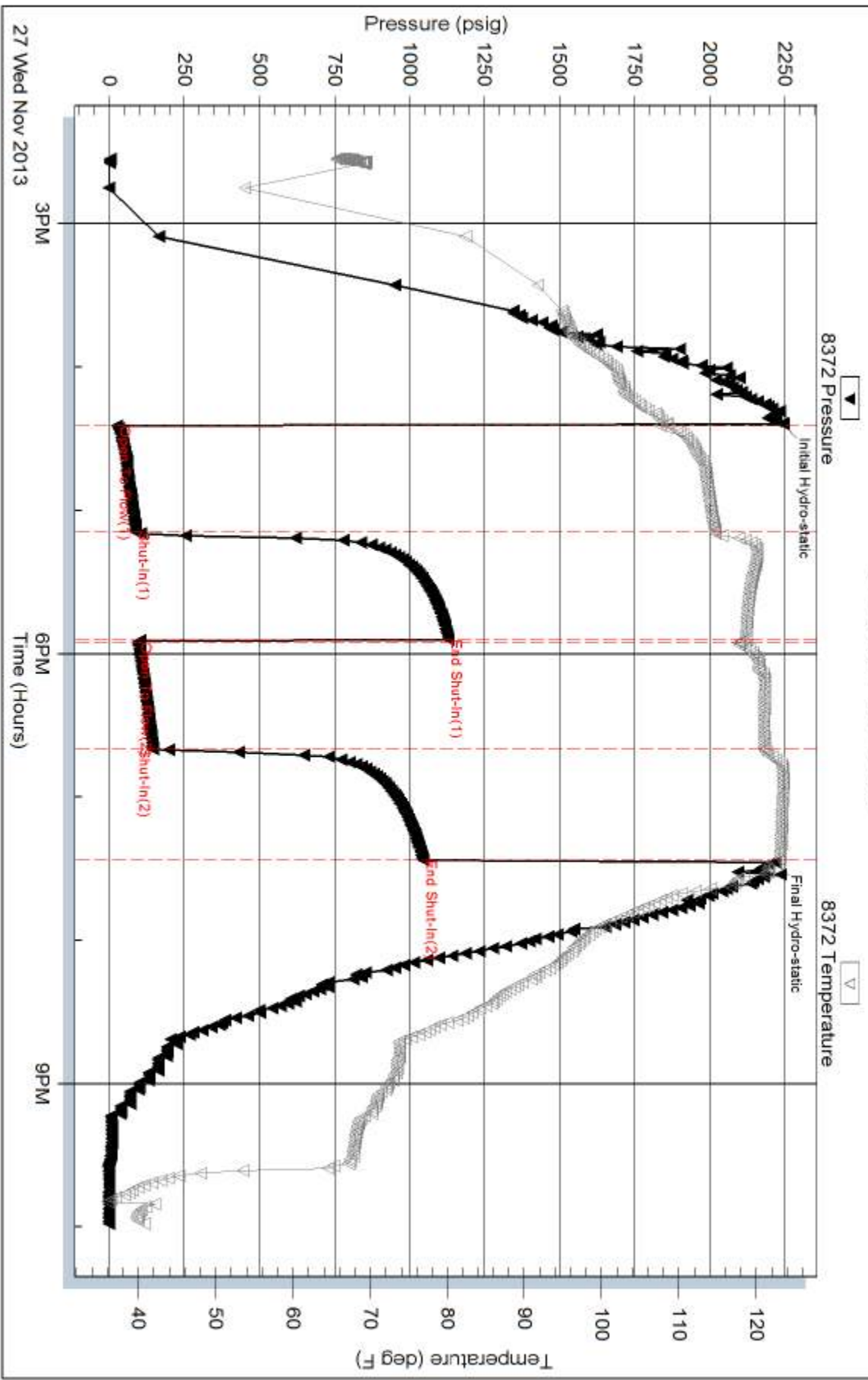
Inside

Tengasco inc.

Abers C#1

DST Test Number: 1

Pressure vs. Time



27 Wed Nov 2013

3PM

6PM

Time (Hours)

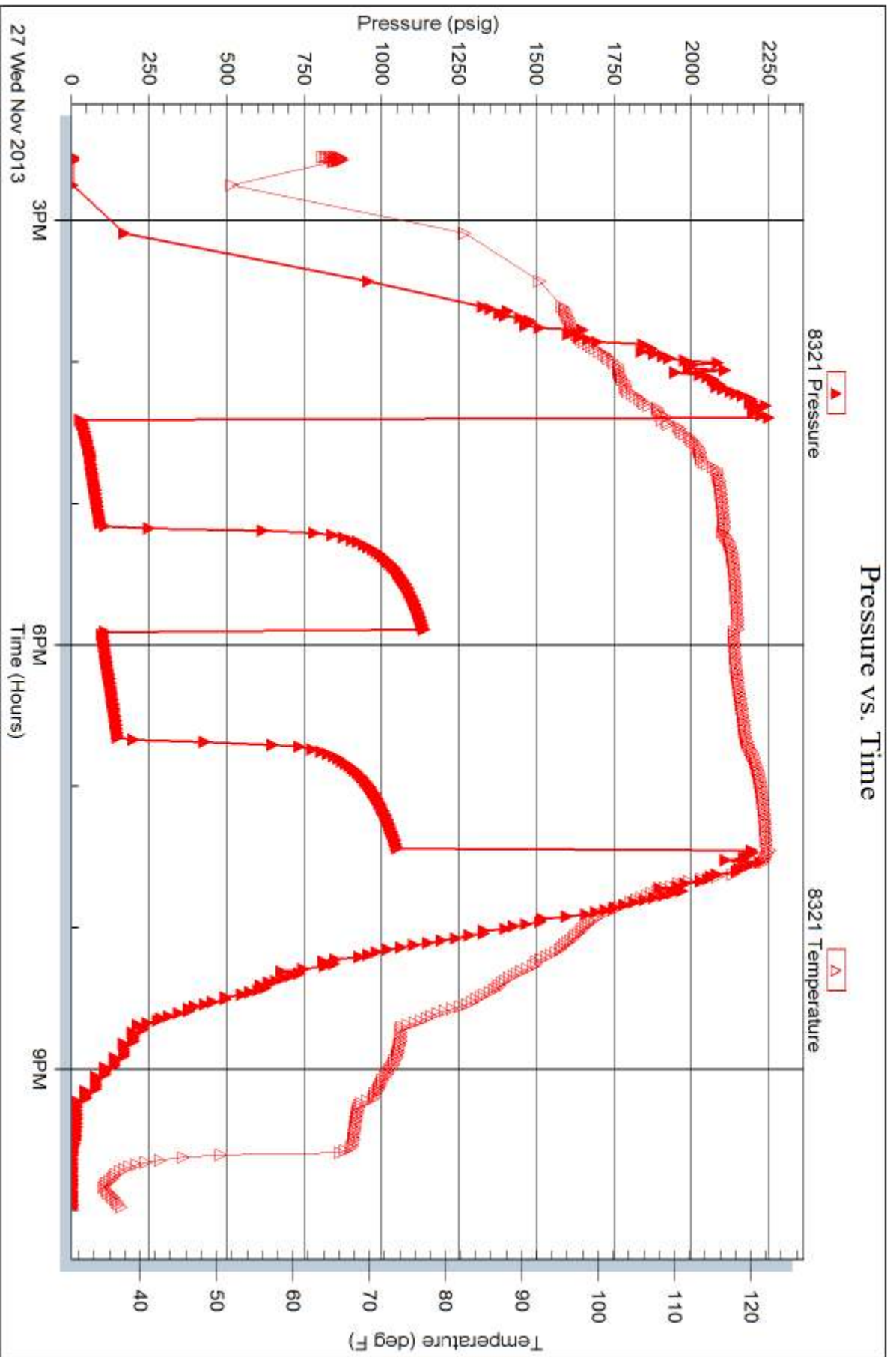
9PM

Serial #: 8321

Outside Tengasco Inc.

Albers C#1

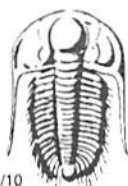
DST Test Number: 1



Tribble Testing, Inc

Ref. No: 54345

Printed: 2013.11.29 @ 11:43:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54345

Well Name & No. Albers C #1 Test No. _____ Date 11-27-13
 Company TENGASCO INC. Elevation 2522 KB 2515 GL _____
 Address PO Box 458 Hays, Ks. 67601 + 9744
 Co. Rep / Geo. MIKE BAIR Rig AMER EAGLE #2
 Location: Sec. 24 Twp. 15 S Rge. 25 W Co. TREGO State Ks

Interval Tested 4469-4495 Zone Tested Miss.
 Anchor Length 26' Drill Pipe Run 4432 Mud Wt. 9.3
 Top Packer Depth 4464 Drill Collars Run 30.60 Vis 57
 Bottom Packer Depth 4469 Wt. Pipe Run 0 WL 610
 Total Depth 4495 Chlorides 1500 ppm System LCM 2#s

Blow Description 1" 2" blow in 3min. 6" in 9min, 10" in 15min, BOB in 16min
ISI: Return surface blow dies in 25min
2" 2" blow in 3min. 6" in 8min, 10" in 13min, BOB in 14min
ISI: Return surface blow dies in 25min

Rec	Feet of	%gas	%oil	%water	%mud
<u>245</u>	<u>CGD</u>	<u>5</u>	<u>95</u>		
<u>110</u>	<u>HOCBM</u>	<u>5</u>	<u>20</u>		<u>75</u>
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of <u>455'-GIP</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 355' BHT _____ Gravity 39 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2244</u>	<input checked="" type="checkbox"/> Test @ <u>1250</u>	T-On Location <u>13:50</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jarse @ <u>250</u>	T-Started <u>15:33 14:33</u>
(C) First Final Flow <u>88</u>	<input checked="" type="checkbox"/> Safety Joint @ <u>75</u>	T-Open <u>16:25</u>
(D) Initial Shut-In <u>1129</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>19:25</u>
(E) Second Initial Flow <u>95</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>22:00</u>
(F) Second Final Flow <u>144</u>	<input checked="" type="checkbox"/> Mileage <u>130RT</u> <u>201.50</u>	Comments _____
(G) Final Shut-In <u>1043</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2217</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1776.50

Approved By _____ Our Representative [Signature]

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