15-167-23472 27-15s-14w

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mai Operating Inc**

PO Box 33
Russell KS 67665

ATTN: Kit Noah

27 15 14W Russell KS

Brungardt #1

Start Date: 2007.11.28 @ 08:57:49
End Date: 2007.11.28 @ 14:40:49
Job Ticket #: 28142 DST #: 1

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

Mai Operating Inc Brungardt #1 27 15 14W Russell KS DST # 1 Arbuckle 2007.11.28

DRILL STEM TEST REPORT

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ATTN: Kit Noah

Brungardt #1

27 15 14W Russell KS

Job Ticket: 28142 **DST#: 1**

Test Start: 2007.11.28 @ 08:57:49

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:44:49
Time Test Ended: 14:40:49

Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 30

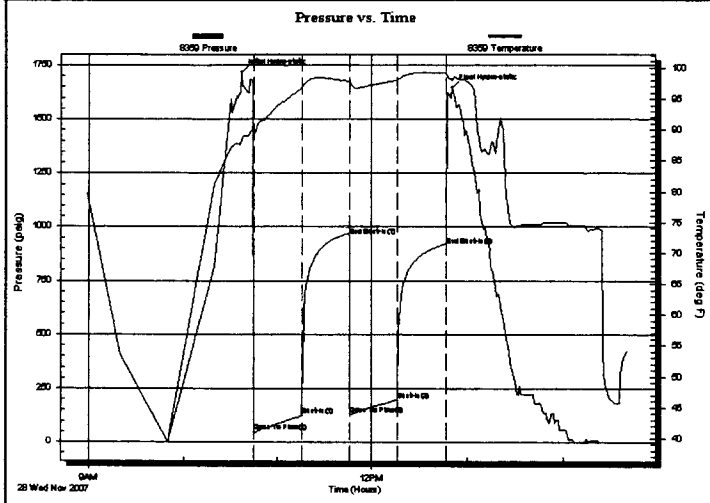
Interval: 3308.00 ft (KB) To 3356.00 ft (KB) (TVD)
Total Depth: 3356.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1905.00 ft (KB)
1897.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8359 **Inside**

Press@RunDepth:	197.83 psig @	3309.00 ft (KB)		Capacity:	7000.00 psig
Start Date:	2007.11.28	End Date:	2007.11.28	Last Calib.:	2007.11.28
Start Time:	08:58:49	End Time:	14:40:49	Time On Btm:	2007.11.28 @ 10:37:04
				Time Off Btm:	2007.11.28 @ 12:50:34

TEST COMMENT: IF Strong Blow BOB in 6 minutes
ISI Bled Off 1 inch Blowback
FF Strong Blow BOB in 8 minutes
FSI Bled Off Surface Blowback



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1714.83	88.24	Initial Hydro-static
8	50.03	89.22	Open To Flow (1)
39	124.34	96.82	Shut-In(1)
69	957.80	97.78	End Shut-In(1)
69	130.02	97.48	Open To Flow (2)
99	197.83	98.04	Shut-In(2)
130	915.50	99.16	End Shut-In(2)
134	1644.59	98.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 180 Feet	0.00
120.00	GOCM 5%G 10%O 85%M	1.68
345.00	GO 5%G 95%O	4.84

Gas Rates

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

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DRILL STEM TEST REPORT

TOOL DIAGRAM

Mai Operating Inc

PO Box 33
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ATTN: Kit Noah

Brungardt #1

27 15 14W Russell KS

Job Ticket: 28142 **DST#: 1**

Test Start: 2007.11.28 @ 08:57:49

Tool Information

Drill Pipe:	Length:	3304.00 ft	Diameter:	3.80 inches	Volume:	46.35 bbl	Tool Weight:		2100.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		44000.00 lb
					Total Volume:	46.35 bbl	Tool Chased		ft
							String Weight:	Initial	40000.00 lb
								Final	41000.00 lb

Drill Pipe Above KB:	15.00 ft
Depth to Top Packer:	3308.00 ft
Depth to Bottom Packer:	ft
Interval between Packers:	48.00 ft
Tool Length:	67.00 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3294.00		
Hydraulic tool	5.00			3299.00		
Packer	5.00			3304.00	19.00	Bottom Of Top Packer
Packer	4.00			3308.00		
Stubb	1.00			3309.00		
Recorder	0.00	8359	Inside	3309.00		
Recorder	0.00	6668	Outside	3309.00		
Perforations	8.00			3317.00		
Drill Pipe	31.00			3348.00		
Perforations	5.00			3353.00		
Bullnose	3.00			3356.00	48.00	Bottom Packers & Anchor
Total Tool Length:	**67.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

TRILOBITE TESTING, INC

Mai Operating Inc

PO Box 33
Russell KS 67665

ATTN: Kit Noah

Brungardt #1

27 15 14W Russell KS

Job Ticket: 28142 **DST#: 1**

Test Start: 2007.11.28 @ 08:57:49

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:	60.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

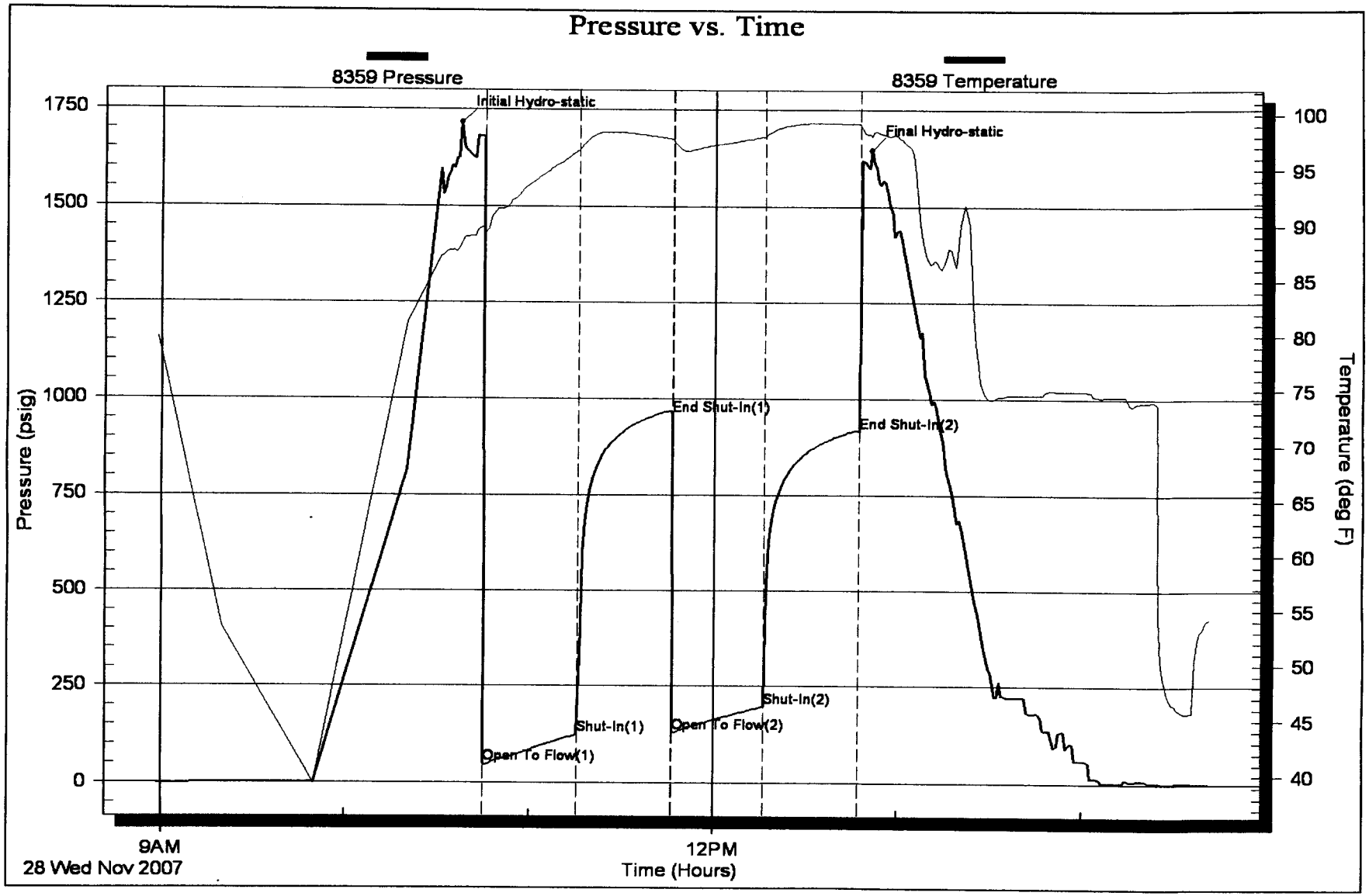
Length ft	Description	Volume bbl
0.00	GIP 180 Feet	0.000
120.00	GOCM 5%G 10%O 85%M	1.683
345.00	GO 5%G 95%O	4.839

Total Length: 465.00 ft Total Volume: 6.522 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8359 Pressure
8359 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure (psig)
1750
1500
1250
1000
750
500
250
0
Temperature (deg F)
100
95
90
85
80
75
70
65
60
55
50
45
40
9AM
28 Wed Nov 2007
12PM
Time (Hours)

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

10/05

28142

10986

RECEIVED DEC 03 2007 BY:

Test Ticket

Well Name & No. Brungardt #1 Test No. 1 Date 11/28/07

Company Mai Operating CO. Zone Tested Arbuckle

Address PO Box 33 Russell KS 67665 Elevation 1905 KB 1897 GL

Co. Rep / Geo. Kit Noah Rig Southwind rig #3

Location: Sec. 27 Twp. 15S Rge. 14W Co. Russell State KS

Comment: Release date / time:

Interval Tested 3308 – 3356 Initial Str Wt./Lbs. 40000 Unseated Str Wt/Lbs. 41000

Anchor Length 48 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 44000

Top Packer Depth 3304 Tool Weight 2100

Bottom Packer Depth 3308 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" –

Total Depth 3356 Wt. Pipe Run Ø Drill Collar Run 0

Mud Wt. 9.2 LCM Vis. 60 WL 8.0 Drill Pipe Size 4 1/2 Ft. Run 3304

Blow Description IF: Strong Blow, BOB in 6 minutes
ISI: Bled off, 1 inch Blowback
FF: Strong Blow, BOB in 8 minutes
FSI: Bled off, surface Blowback

Recovery - Total Feet 465 GIP 180 Ft. in DC Ft. in DP 465

Rec.	345	Feet of GSY oil	5	%gas	95	%oil	%water	%mud
Rec.	120	Feet of GSY OCM	5	%gas	10	%oil	%water	85 %mud
Rec.		Feet of		%gas		%oil	%water	%mud
Rec.		Feet of		%gas		%oil	%water	%mud
Rec.		Feet of		%gas		%oil	%water	%mud

BHT 99 °F Gravity 36.2 °API D @ 58 °F Corrected Gravity 36.4 °API

RW N/C @ N/C °F Chlorides N/C ppm Recovery Chlorides 4000 ppm System

	AK-1	Alpine					
(A) Initital Hydrostatic Mud		1715 PSI	Recorder No.	8359		Test ✓	1100
(B) First Initial Flow Pressure		50 PSI	(depth)	3309		Jars	
(C) First Final Flow Pressure		124 PSI	Recorder No.	6668		Safety Jt.	
(D) Initial Shut-In Pressure		958 PSI	(depth)	3309		Circ Sub	
(E) Second Initial Flow Pressure		130 PSI	Recorder No.			Sampler	
(F) Second Final Flow Pressure		198 PSI	(depth)			Straddle	
(G) Final Shut-In Pressure		915 PSI	**Initial Opening**		30	Ext. Packer	
(Q) Final Hydrostatic Mud		1644 PSI	Initial Shut-In		30	Shale Packer	
			Final Flow		30	Ruined Packer	
			Final Shut-In		30	Mileage	160 ~~200~~
			T-On Location		08:30	Sub Total:	
			T-Started		08:57	Std. By	
			T-Open		10:44	Acc. Chg:	
			T-Pulled		12:46	Other:	
			T-Out		14:40	Total:	1380

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Approved By Kit Noah

Our Representative