



DRILL STEM TEST REPORT

Prepared For: **DK Operating, Inc**

24583 NW 208 Rd.
Jetmore, KS 67854

ATTN: Jason Alm

Sharon #1-24

24-23s-23w Hodgeman,KS

Start Date: 2012.07.20 @ 11:02:02

End Date: 2012.07.20 @ 18:28:02

Job Ticket #: 47423 DST #: 1

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

Printed: 2012.07.26 @ 10:31:25

DK Operating, Inc
24-23s-23w Hodgeman,KS
Sharon #1-24
DST # 1
Miss
2012.07.20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

DK Operating, Inc
 24583 NW 208 Rd.
 Jetmore, KS 67854
 ATTN: Jason Alm

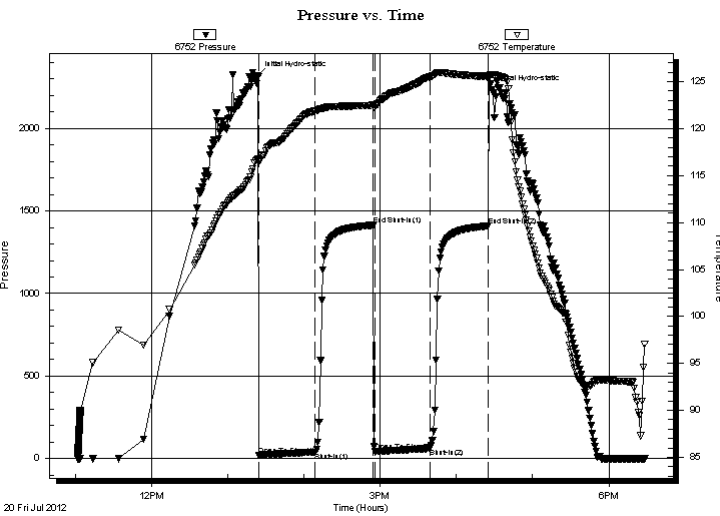
24-23s-23w Hodgeman, KS
Sharon #1-24
 Job Ticket: 47423 **DST#: 1**
 Test Start: 2012.07.20 @ 11:02:02

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:24:32
 Time Test Ended: 18:28:02
Interval: 4599.00 ft (KB) To 4608.00 ft (KB) (TVD)
 Total Depth: 4608.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 2376.00 ft (KB)
 2368.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6752 Inside
 Press @ Run Depth: 60.91 psig @ 4600.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.20 End Date: 2012.07.20 Last Calib.: 2012.07.20
 Start Time: 11:02:03 End Time: 18:28:02 Time On Btm: 2012.07.20 @ 13:23:32
 Time Off Btm: 2012.07.20 @ 16:28:02

TEST COMMENT: IFP - weak to good blow sur - 7 1/2"
 ISI - no blow back
 FFP - weak to good blow sur - 7 1/2"
 FSI - no blow back



PRESSURE SUMMARY

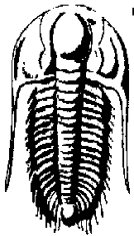
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2322.09	116.73	Initial Hydro-static
1	17.96	116.48	Open To Flow (1)
46	39.13	121.88	Shut-In(1)
91	1414.01	122.49	End Shut-In(1)
93	45.04	122.40	Open To Flow (2)
136	60.91	125.52	Shut-In(2)
182	1408.66	125.56	End Shut-In(2)
185	2235.66	125.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 20%O, 80%M	0.07
105.00	FREE OIL 95%O, 5%M	1.32
0.00	150' GIP	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

DK Operating, Inc
 24583 NW 208 Rd.
 Jetmore, KS 67854
 ATTN: Jason Alm

24-23s-23w Hodgeman, KS

Sharon #1-24

Job Ticket: 47423

DST#: 1

Test Start: 2012.07.20 @ 11:02:02

GENERAL INFORMATION:

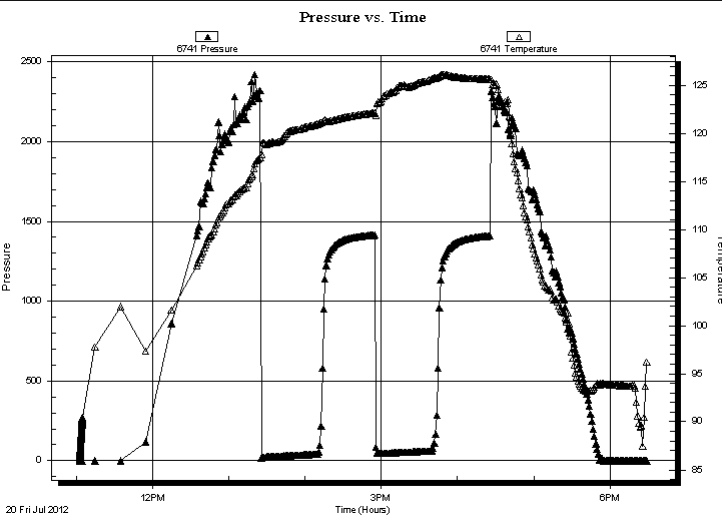
Formation:	Miss			Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock:	ft (KB)		Tester:	Brian Fairbank
Time Tool Opened:	13:24:32			Unit No:	41
Time Test Ended:	18:28:02				
Interval:	4599.00 ft (KB) To 4608.00 ft (KB) (TVD)			Reference Elevations:	2376.00 ft (KB)
Total Depth:	4608.00 ft (KB) (TVD)				2368.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition:	Good	KB to GR/CF:	8.00 ft

Serial #: 6741

Outside

Press @ Run Depth:	psig @	4600.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2012.07.20	End Date:	2012.07.20	Last Calib.:	2012.07.20
Start Time:	11:02:49	End Time:	18:28:48	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IFP - weak to good blow sur - 7 1/2"
 ISI - no blow back
 FFP - weak to good blow sur - 7 1/2"
 FSI - no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 20%O, 80%M	0.07
105.00	FREE OIL 95%O, 5%M	1.32
0.00	150' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

DK Operating, Inc
24583 NW 208 Rd.
Jetmore, KS 67854
ATTN: Jason Alm

24-23s-23w Hodgeman, KS
Sharon #1-24
Job Ticket: 47423 **DST#: 1**
Test Start: 2012.07.20 @ 11:02:02

Tool Information

Drill Pipe:	Length: 4564.00 ft	Diameter: 3.80 inches	Volume: 64.02 bbl	Tool Weight: 2500.00 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: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 64.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4599.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	36.00 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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Shut In Tool	5.00			4577.00	
Hydraulic tool	5.00			4582.00	
Jars	5.00			4587.00	
Safety Joint	2.00			4589.00	
Packer	5.00			4594.00	27.00 Bottom Of Top Packer
Packer	5.00			4599.00	
Stubb	1.00			4600.00	
Recorder	0.00	6752	Inside	4600.00	
Recorder	0.00	6741	Outside	4600.00	
Perforations	5.00			4605.00	
Bullnose	3.00			4608.00	9.00 Bottom Packers & Anchor

Total Tool Length: 36.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DK Operating, Inc

24-23s-23w Hodgeman, KS

24583 NW 208 Rd.
Jetmore, KS 67854

Sharon #1-24

Job Ticket: 47423

DST#: 1

ATTN: Jason Alm

Test Start: 2012.07.20 @ 11:02:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	OCM 20%O, 80%M	0.074
105.00	FREE OIL 95%O, 5%M	1.318
0.00	150' GIP	0.000

Total Length: 120.00 ft

Total Volume: 1.392 bbl

Num Fluid Samples: 0

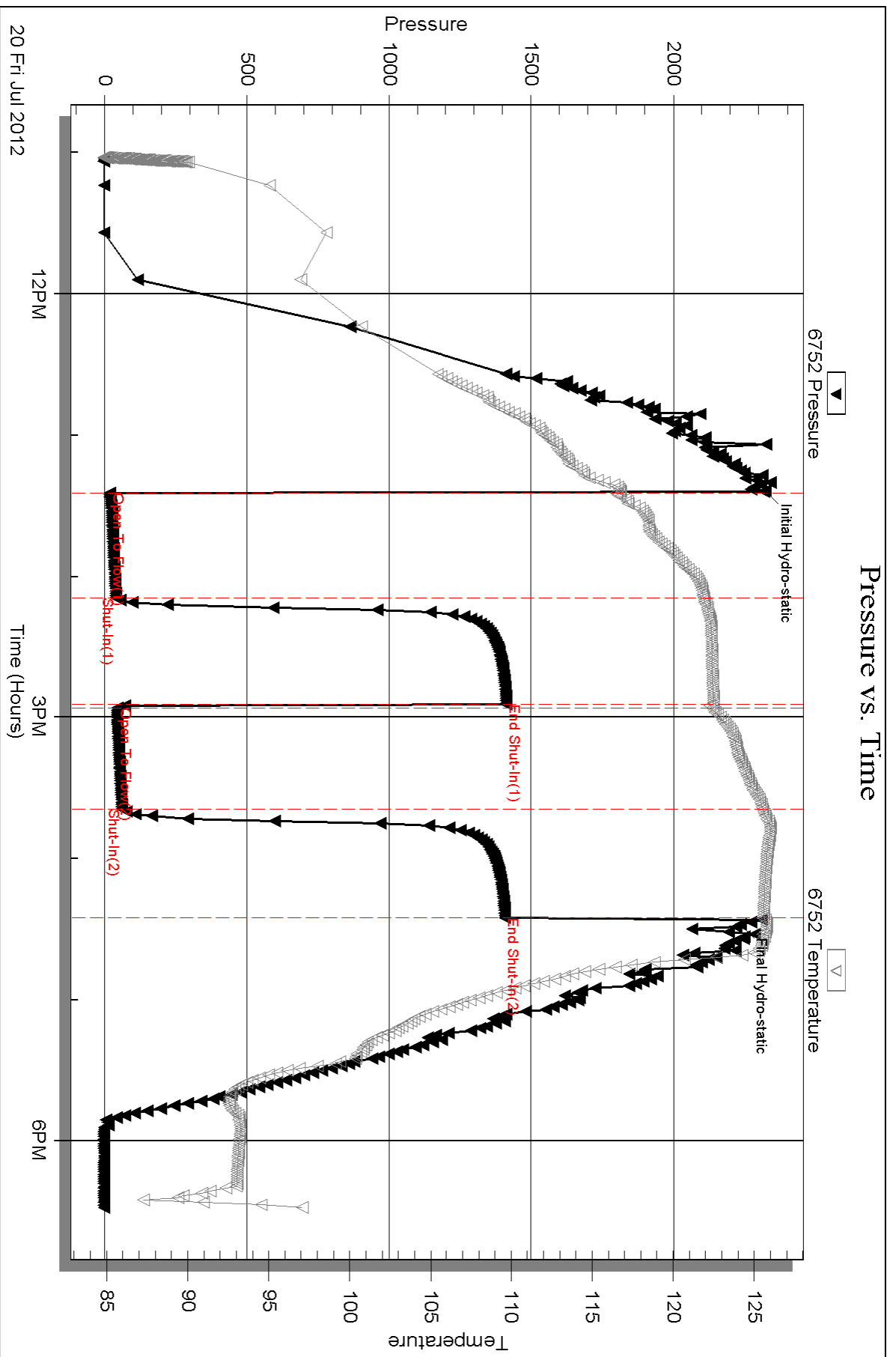
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

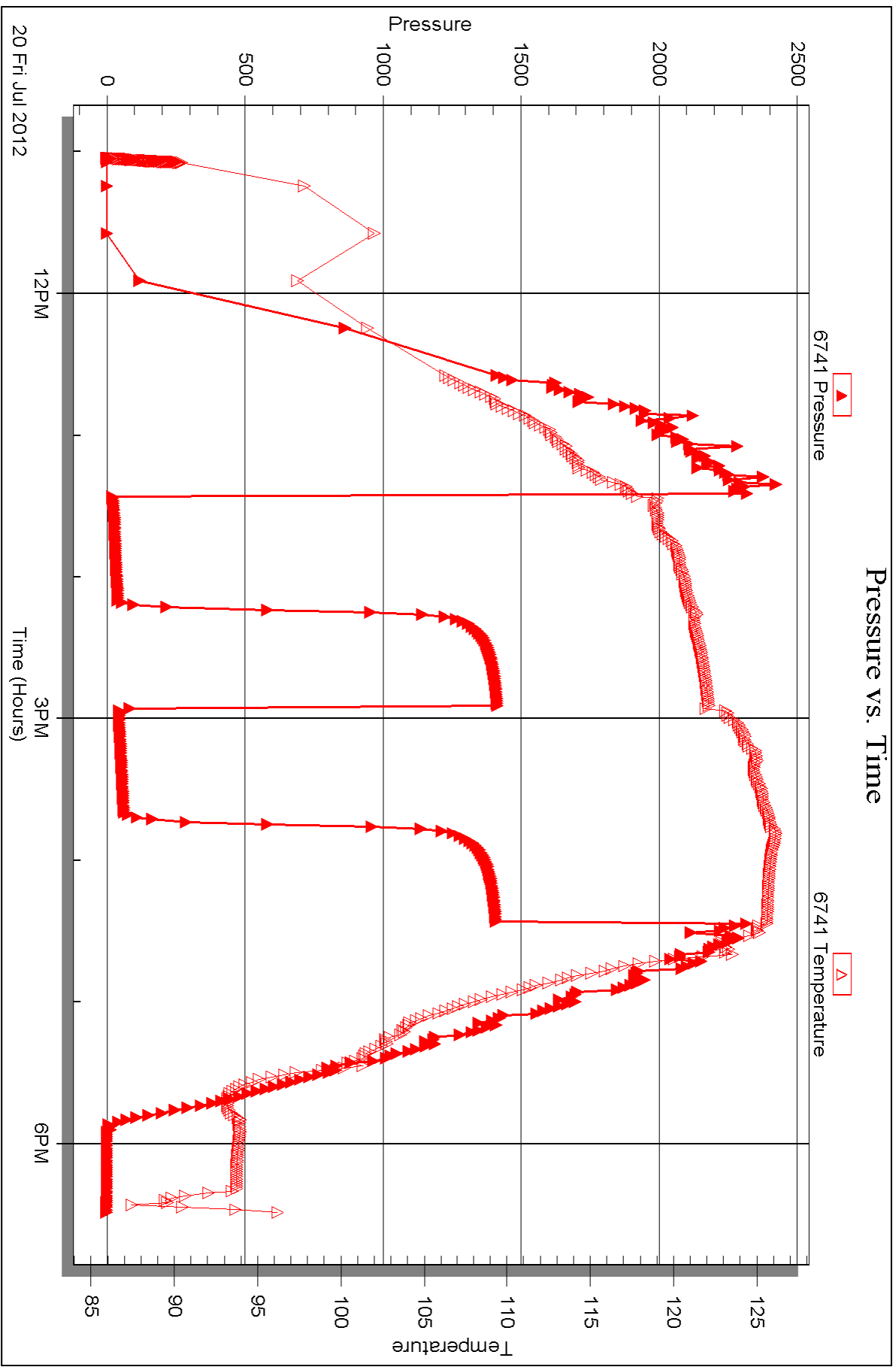


Serial #: 6741

Outside DK Operating, Inc

Sharon #1-24

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **DK Operating, Inc**

24583 NW 208 Rd.
Jetmore, KS 67854

ATTN: Jason Alm

Sharon #1-24

24-23s-23w Hodgeman,KS

Start Date: 2012.07.21 @ 00:51:40

End Date: 2012.07.21 @ 07:08:10

Job Ticket #: 47424 DST #: 2

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

Printed: 2012.07.26 @ 10:30:39

DK Operating, Inc
24-23s-23w Hodgeman,KS
Sharon #1-24
DST # 2
Miss
2012.07.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

DK Operating, Inc
 24583 NW 208 Rd.
 Jetmore, KS 67854
 ATTN: Jason Alm

24-23s-23w Hodgeman, KS

Sharon #1-24

Job Ticket: 47424

DST#: 2

Test Start: 2012.07.21 @ 00:51:40

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:18:40
 Time Test Ended: 07:08:10
 Interval: **4608.00 ft (KB) To 4616.00 ft (KB) (TVD)**
 Total Depth: 4616.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brian Fairbank
 Unit No: 41
 Reference Elevations: 2376.00 ft (KB)
 2368.00 ft (CF)
 KB to GR/CF: 8.00 ft

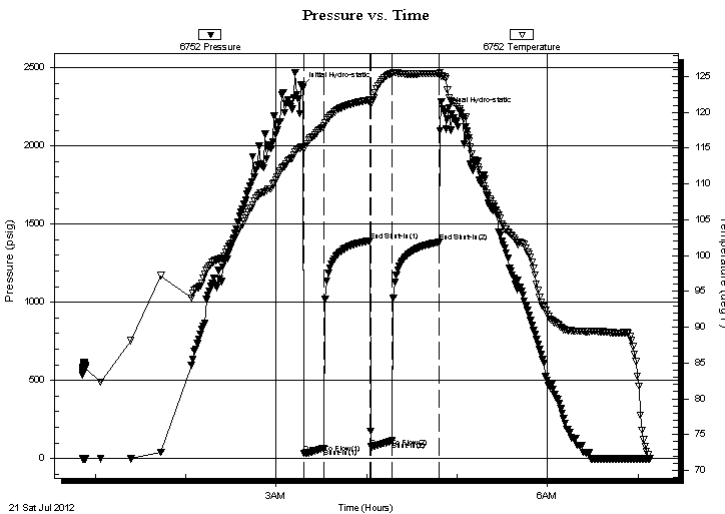
Serial #: 6752

Inside

Press @ Run Depth: 112.78 psig @ 4609.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.21 End Date: 2012.07.21 Last Calib.: 2012.07.21
 Start Time: 00:51:41 End Time: 07:08:10 Time On Btm: 2012.07.21 @ 03:17:10
 Time Off Btm: 2012.07.21 @ 04:51:10

TEST COMMENT: IFP - BOB 7 min
 ISI - 2 1/4" blow back
 FFP - BOB 9 min
 FSI - 2 1/2" blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2378.50	115.16	Initial Hydro-static
2	31.77	115.00	Open To Flow (1)
15	66.32	118.06	Shut-In(1)
45	1393.81	121.74	End Shut-In(1)
46	74.37	121.59	Open To Flow (2)
60	112.78	125.44	Shut-In(2)
91	1383.84	125.40	End Shut-In(2)
94	2218.96	124.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	WHOCM 25%O, 5%W, 70%M	0.10
40.00	WMO 87%O, 3%W, 10%M	0.45
200.00	FREE OIL 95%O, 5%M	2.81
0.00	270' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

DK Operating, Inc

24-23s-23w Hodgeman, KS

24583 NW 208 Rd.
Jetmore, KS 67854

Sharon #1-24

Job Ticket: 47424

DST#: 2

ATTN: Jason Alm

Test Start: 2012.07.21 @ 00:51:40

Tool Information

Drill Pipe:	Length: 4565.00 ft	Diameter: 3.80 inches	Volume: 64.03 bbl	Tool Weight: 2500.00 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: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 64.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4608.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	35.00 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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Shut In Tool	5.00			4586.00	
Hydraulic tool	5.00			4591.00	
Jars	5.00			4596.00	
Safety Joint	2.00			4598.00	
Packer	5.00			4603.00	27.00 Bottom Of Top Packer
Packer	5.00			4608.00	
Stubb	1.00			4609.00	
Recorder	0.00	6752	Inside	4609.00	
Recorder	0.00	6741	Outside	4609.00	
Perforations	4.00			4613.00	
Bullnose	3.00			4616.00	8.00 Bottom Packers & Anchor

Total Tool Length: 35.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

DK Operating, Inc

24-23s-23w Hodgeman, KS

24583 NW 208 Rd.
Jetmore, KS 67854

Sharon #1-24

Job Ticket: 47424

DST#: 2

ATTN: Jason Alm

Test Start: 2012.07.21 @ 00:51:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

9500 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	WHOCM 25%O, 5%W, 70%M	0.098
40.00	WMO 87%O, 3%W, 10%M	0.452
200.00	FREE OIL 95%O, 5%M	2.805
0.00	270' GIP	0.000

Total Length: 260.00 ft

Total Volume: 3.355 bbl

Num Fluid Samples: 0

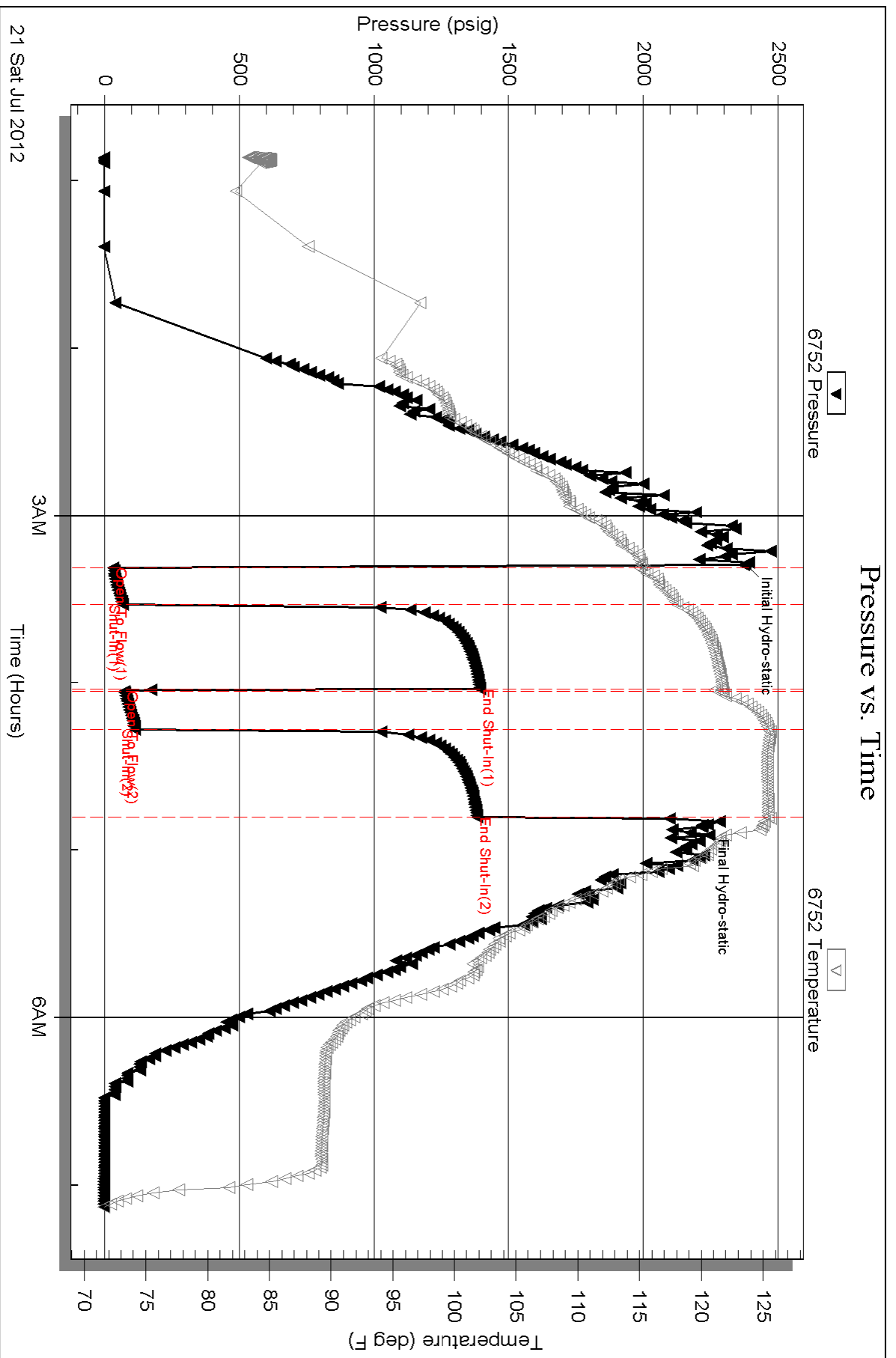
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

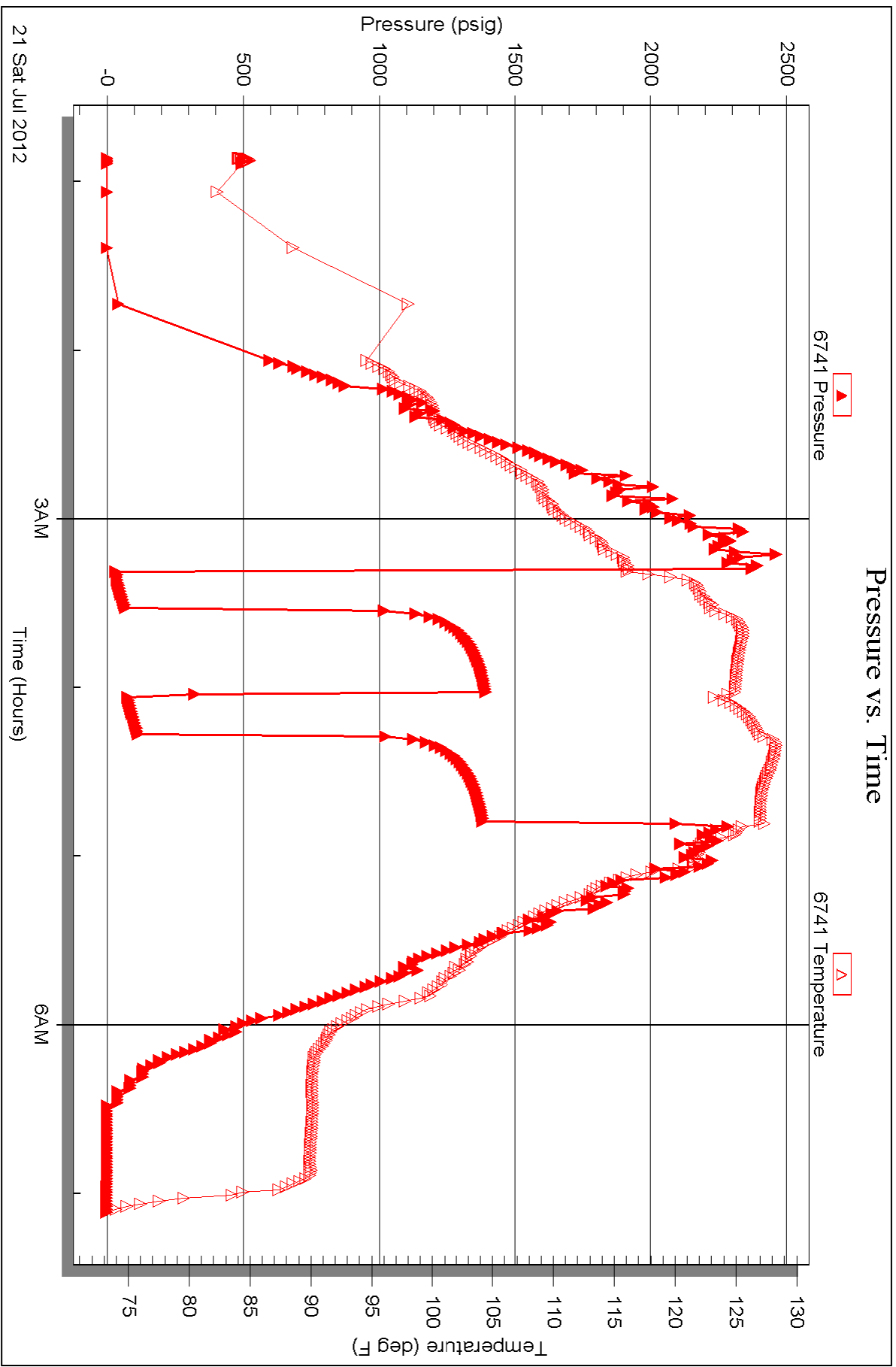


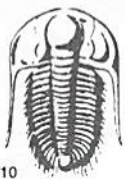
Serial #: 6741

Outside DK Operating, Inc

Sharon #1-24

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47423

Well Name & No. Sharon 1-24 Test No. 1 Date 7-20-12
 Company OK Operating, Inc Elevation 2376 KB 2368 GL
 Address 24583 NW 208 Rd Jetmore, KS 67854
 Co. Rep / Geo. Jason Alm Rig Discovery 3
 Location: Sec. 24 Twp. 23 Rge. 23 Co. Hodgeman State K

Interval Tested 4599-4608 Zone Tested Miss
 Anchor Length 9 Drill Pipe Run 4564 Mud Wt. 9.3
 Top Packer Depth 4594 Drill Collars Run 32 Vis 52
 Bottom Packer Depth 4599 Wt. Pipe Run — WL 9.2
 Total Depth 4608 Chlorides 5600 ppm System LCM
 Blow Description IFP- weak to Good flow sur - 7 1/2"
ISI- no blow back
FFP- weak to Good flow sur - 7 1/2"
FSI- no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>GAIP</u>				
<u>105</u>	<u>Free Oil</u>		<u>95%</u>		<u>5%</u>
<u>15</u>	<u>OCM</u>		<u>20%</u>		<u>80%</u>

Rec Total 120 BHT 106 Gravity 32 API RW @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2322 Test 1250 T-On Location 012
 (B) First Initial Flow 18 Jars 250 T-Started 1102
 (C) First Final Flow 39 Safety Joint 75 T-Open 1324
 (D) Initial Shut-In 1414 Circ Sub T-Pulled 1624
 (E) Second Initial Flow 45 Hourly Standby T-Out 1828
 (F) Second Final Flow 61 Mileage 168 RT 260.40 Comments
 (G) Final Shut-In 1409 Sampler
 (H) Final Hydrostatic 2236 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1835.40
 Accessibility MP/DST Disc't

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

Sub Total 1835.40

Approved By _____ Our Representative Brian Fairbank

TriLOBite Testing Inc. shall not be liable for damaged 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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47424

Well Name & No. Sharon 1-24 Test No. 2 Date 7-20-12
 Company OK Elevation 2376 KB 2368 GL
 Address _____
 Co. Rep / Geo. Jason Alm Rig Discovery 3
 Location: Sec. 24 Twp. 23 Rge. 23 Co. Hodgeman State ks

Interval Tested 4608-4616 Zone Tested Miss
 Anchor Length 4603 Drill Pipe Run 4565 Mud Wt. 9.4
 Top Packer Depth 4608 Drill Collars Run 32 Vis SS
 Bottom Packer Depth 4616 Wt. Pipe Run _____ WL 10.0
 Total Depth 8 Chlorides 6300 ppm System LCM _____

Blow Description IFP- BOB 7 min
ISI- 2 1/4" blow back
FFP- BOB 9 min
FST- 2 1/2" blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>270</u>	<u>GIP</u>				
<u>200</u>	<u>Free Oil</u>		<u>95</u>		<u>5</u>
<u>40</u>	<u>WMO</u>	<u>87</u>	<u>3</u>	<u>10</u>	
<u>20</u>	<u>WHDCM</u>	<u>25</u>	<u>5</u>	<u>70</u>	
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 260 BHT 125 Gravity 33 API RW .604 @ 74 °F Chlorides 9500 ppm

(A) Initial Hydrostatic 2379 Test 1250 T-On Location 2349
 (B) First Initial Flow 32 Jars 250 T-Started 0051
 (C) First Final Flow 66 Safety Joint 75 T-Open 0318
 (D) Initial Shut-In 1394 Circ Sub T-Pulled 0448
 (E) Second Initial Flow 74 Hourly Standby T-Out 0708
 (F) Second Final Flow 113 Mileage 260.40
 (G) Final Shut-In 1384 Sampler
 (H) Final Hydrostatic 2219 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30
 Sub Total 1835.40
 Total 1835.40
 MP/DST Disc't _____

Approved By _____

Our Representative Brian Fairbairn

Trilobite Testing Inc. shall not be liable for damaged or 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.