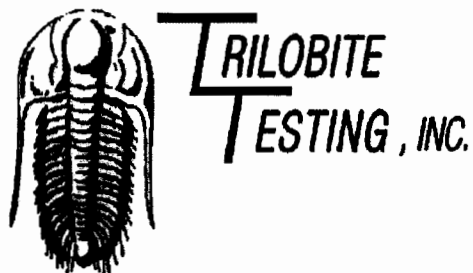


Ind



DRILL STEM TEST REPORT

Prepared For: **Hart Energies, LLC**

6903 So. 78th East Ave.
Tulsa, OK 74133

ATTN: William G. Hart

28 34S 10W Barber KS

STRANATHAN #1

Start Date: 2010.03.18 @ 03:07:00

End Date: 2010.03.18 @ 13:22:10

Job Ticket #: 36251 DST #: 1

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

RECEIVED
OCT 07 2010
KCC WICHITA



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Hart Energies, LLC

6903 So. 78th East Ave.
Tulsa, OK 74133

ATTN: William G. Hart

STRANATHAN #1

28 34S 10W Barber KS

Job Ticket: 36251

DST#: 1

Test Start: 2010.03.18 @ 03:07:00

GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:02:40

Time Test Ended: 13:22:10

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 43

Interval: **4700.00 ft (KB) To 4718.00 ft (KB) (TVD)**

Total Depth: 4718.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1333.00 ft (KB)

1323.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8648

Inside

Press@RunDepth: 57.81 psig @ 4701.00 ft (KB)

Start Date: 2010.03.18

End Date:

2010.03.18

Capacity: 8000.00 psig

Last Calib.: 2010.03.18

Start Time: 03:07:05

End Time:

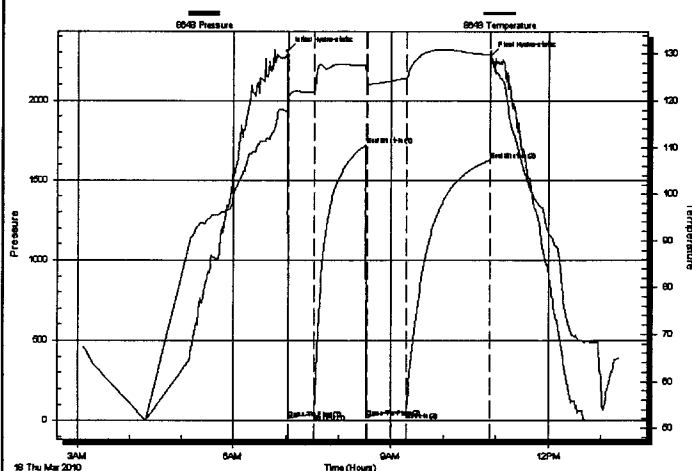
13:22:09

Time On Btm: 2010.03.18 @ 07:01:10

Time Off Btm: 2010.03.18 @ 10:53:59

TEST COMMENT: IF: Strong blow, built to BOB in 1.5 minutes.
IS: Bled off, GTS w hile bleeding off, no blow back.
FF: Strong blow, Built to BOB immediately.
FSI: Bled off, no blow back.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2308.55	118.45	Initial Hydro-static
2	14.83	119.75	Open To Flow (1)
32	46.95	121.95	Shut-In(1)
91	1721.05	127.61	End Shut-In(1)
92	18.82	123.53	Open To Flow (2)
136	57.81	124.82	Shut-In(2)
232	1626.09	129.85	End Shut-In(2)
233	2282.21	130.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GC SO&WCM 10%g 2%o 3%w 85%m	0.34
60.00	GC SOC WCM 10%g 3%o 25%w 62%m	0.30
0.00	rw = .15ohm@59degF=60,000ppmChl	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	9.00	8.76
Last Gas Rate	0.13	10.00	9.13
Max. Gas Rate	0.13	10.00	9.13



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hart Energies, LLC

STRANATHAN #1

6903 So. 78th East Ave.
Tulsa, OK 74133

28 34S 10W Barber KS

Job Ticket: 36251

DST#: 1

ATTN: William G. Hart

Test Start: 2010.03.18 @ 03:07:00

Tool Information

Drill Pipe:	Length: 4450.00 ft	Diameter: 3.80 inches	Volume: 62.42 bbl	Tool Weight: 2300.00 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	63.63 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4700.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 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			4685.00	
Hydraulic tool	5.00			4690.00	
Packer	5.00			4695.00	20.00 Bottom Of Top Packer
Packer	5.00			4700.00	
Stub	1.00			4701.00	
Recorder	0.00	8648	Inside	4701.00	
Recorder	0.00	6799	Inside	4701.00	
Perforations	12.00			4713.00	
Bullnose	5.00			4718.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hart Energies, LLC

STRANATHAN #1

6903 So. 78th East Ave.
Tulsa, OK 74133

28 34S 10W Barber KS

Job Ticket: 36251

DST#: 1

ATTN: William G. Hart

Test Start: 2010.03.18 @ 03:07:00

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:

60000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	GC SO&WCM 10%g 2%o 3%w 85%m	0.344
60.00	GC SOC WCM 10%g 3%o 25%w 62%m	0.295
0.00	rw = .15ohm@59degF=60,000ppmChl	0.000

Total Length: 130.00 ft

Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Hart Energies, LLC

STRANATHAN #1

6903 So. 78th East Ave.
Tulsa, OK 74133

28 34S 10W Barber KS

ATTN: William G. Hart

Job Ticket: 36251

DST#: 1

Test Start: 2010.03.18 @ 03:07:00

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.13	9.00	8.76
2	10	0.13	9.00	8.76
2	20	0.13	10.00	9.13
2	30	0.13	10.00	9.13
2	45	0.13	10.00	9.13

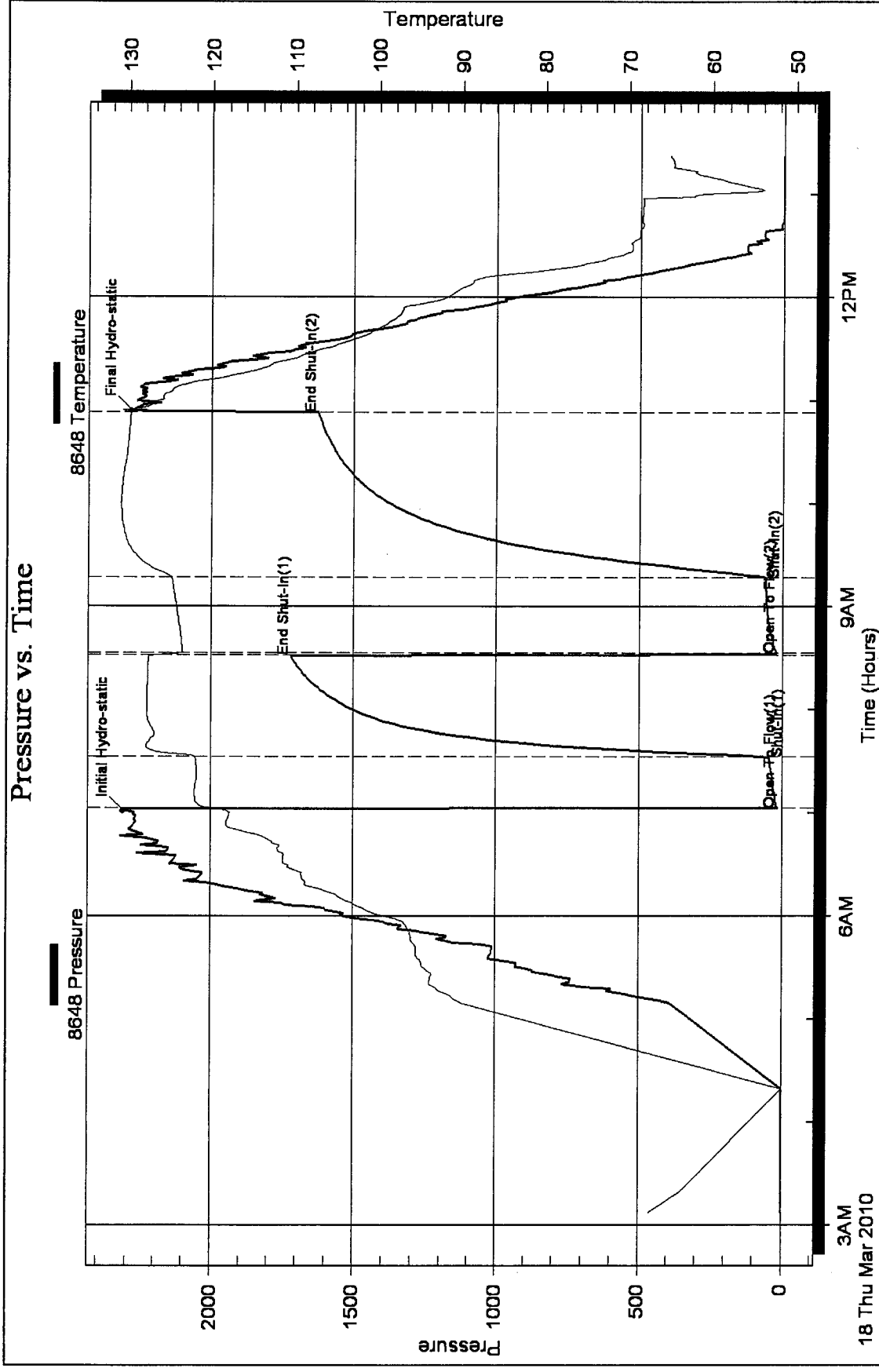
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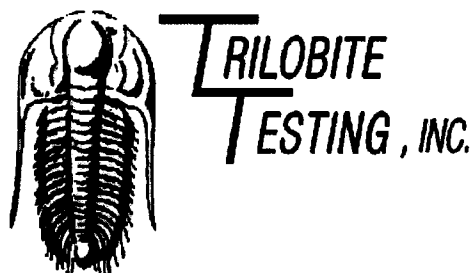
Inside

Hart Energies, LLC

28 34S 10W Barber KS

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Hart Energies, LLC**

6903 So. 78th East Ave.
Tulsa, OK 74133

ATTN: William G. Hart

28 34S 10W Barber KS

STRANATHAN #1

Start Date: 2010.03.18 @ 20:50:00

End Date: 2010.03.19 @ 06:12:19

Job Ticket #: 36252 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hart Energies, LLC
6903 So. 78th East Ave.
Tulsa, OK 74133
ATTN: William G. Hart

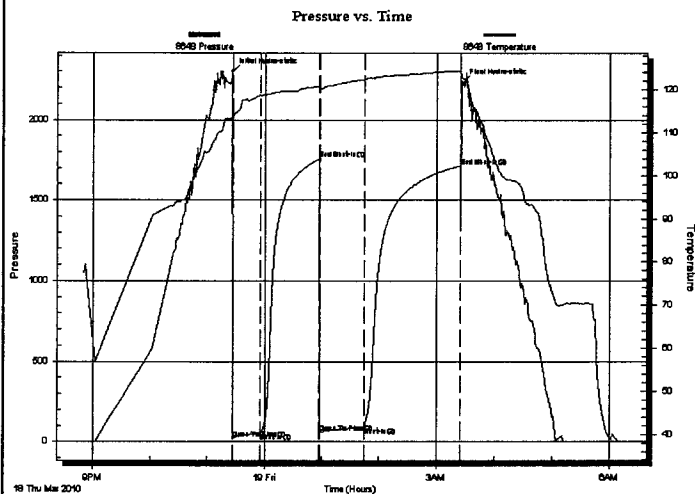
STRANATHAN #1
28 34S 10W Barber KS
Job Ticket: 36252 **DST#: 2**
Test Start: 2010.03.18 @ 20:50:00

GENERAL INFORMATION:

Formation: **MISSISSIPPIAN**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:26:50
Time Test Ended: 06:12:19
Test Type: Conventional Bottom Hole
Tester: Jake Fahrenbruch
Unit No: 43
Interval: **4718.00 ft (KB) To 4735.00 ft (KB) (TVD)**
Total Depth: **4735.00 ft (KB) (TVD)**
Hole Diameter: 7.88 inches
Hole Condition: Good
Reference Elevations: 1333.00 ft (KB)
1323.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: **8648** Inside
Press@RunDepth: 92.03 psig @ 4719.00 ft (KB)
Start Date: 2010.03.18 End Date: 2010.03.19
Start Time: 20:50:05 End Time: 06:12:20
Capacity: 8000.00 psig
Last Calib.: 2010.03.19
Time On Btm: 2010.03.18 @ 23:26:00
Time Off Btm: 2010.03.19 @ 03:26:29

TEST COMMENT: IF: Weak blow, built to 5".
IS: Bled off, no blow back.
FF: Weak blow, built to 7.5".
FSI: Bled off, no blow back.



PRESSURE SUMMARY

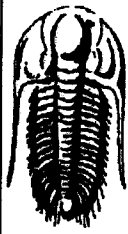
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2298.05	113.90	Initial Hydro-static
1	23.07	113.68	Open To Flow (1)
30	54.74	118.68	Shut-In(1)
92	1757.70	120.77	End Shut-In(1)
92	56.15	120.13	Open To Flow (2)
139	92.03	122.44	Shut-In(2)
239	1713.19	124.36	End Shut-In(2)
241	2232.53	122.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	SOCM 5%o 95%w	0.42
70.00	SMCW 10%w 90%w	0.34
0.00	150' GIP	0.00
0.00	rw = .19ohm@52degF=55000ppmCHL	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hart Energies, LLC

STRANATHAN #1

6903 So. 78th East Ave.
Tulsa, OK 74133

28 34S 10W Barber KS

Job Ticket: 36252

DST#: 2

ATTN: William G. Hart

Test Start: 2010.03.18 @ 20:50:00

Tool Information

Drill Pipe:	Length: 4455.00 ft	Diameter: 3.80 inches	Volume: 62.49 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 63.70 bbl	Tool Chased 4.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4718.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	37.00 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			4703.00	
Hydraulic tool	5.00			4708.00	
Packer	5.00			4713.00	20.00 Bottom Of Top Packer
Packer	5.00			4718.00	
Stubb	1.00			4719.00	
Recorder	0.00	8648	Inside	4719.00	
Recorder	0.00	6799	Inside	4719.00	
Perforations	11.00			4730.00	
Bullnose	5.00			4735.00	17.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hart Energies, LLC

STRANATHAN #1

6903 So. 78th East Ave.
Tulsa, OK 74133

28 34S 10W Barber KS

Job Ticket: 36252

DST#: 2

ATTN: William G. Hart

Test Start: 2010.03.18 @ 20:50:00

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:

55000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
85.00	SOCM 5%o 95%m	0.418
70.00	SMCW 10%m 90%w	0.344
0.00	150' GIP	0.000
0.00	rw = 19ohm@52degF=55000ppmCHL	0.000

Total Length: 155.00 ft

Total Volume:

0.762 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

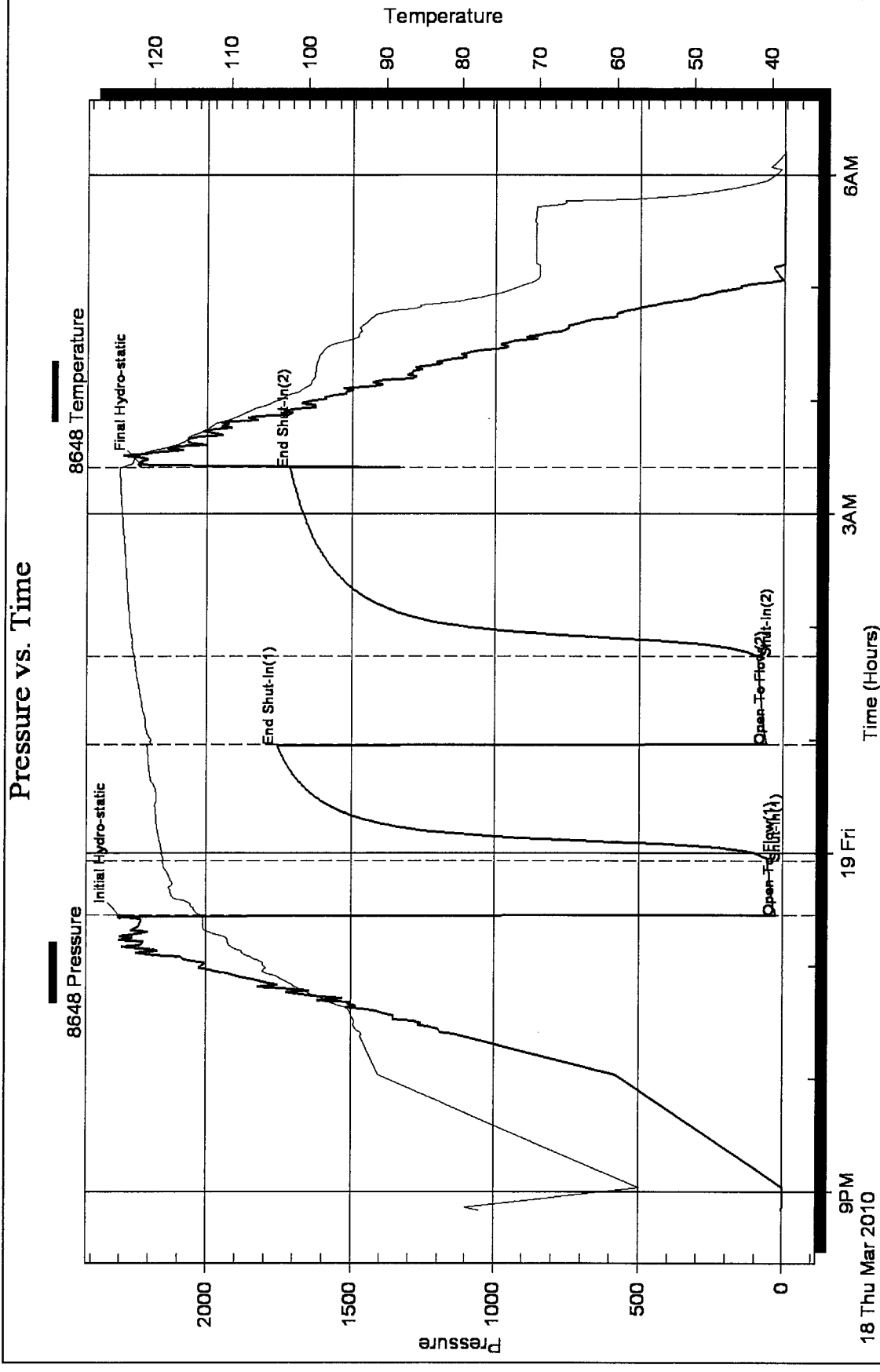
Serial #:

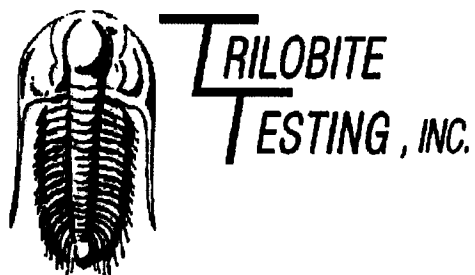
Laboratory Name:

Laboratory Location:

Recovery Comments: RW .19 @ 52F = 55000 ppm chlorides

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Hart Energies, LLC**

6903 So. 78th East Ave.
Tulsa, OK 74133

ATTN: William G. Hart

28 34S 10W Barber KS

STRANATHAN #1

Start Date: 2010.03.20 @ 09:47:00

End Date: 2010.03.20 @ 20:05:10

Job Ticket #: 36253 DST #: 3

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hart Energies, LLC

6903 So. 78th East Ave.
Tulsa, OK 74133

ATTN: William G. Hart

STRANATHAN #1

28 34S 10W Barber KS

Job Ticket: 36253

DST#: 3

Test Start: 2010.03.20 @ 09:47:00

GENERAL INFORMATION:

Formation: **MISENER SAND**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 12:54:20

Time Test Ended: 20:05:10

Test Type: **Conventional Bottom Hole**

Tester: **Jake Fahrenbruch**

Unit No: **43**

Interval: **4961.00 ft (KB) To 5063.00 ft (KB) (TVD)**

Total Depth: **5063.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **1333.00 ft (KB)**

1323.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 8648

Inside

Press@RunDepth: **66.18 psig @ 5033.00 ft (KB)**

Start Date: **2010.03.20**

End Date: **2010.03.20**

Start Time: **09:47:05**

End Time: **20:05:09**

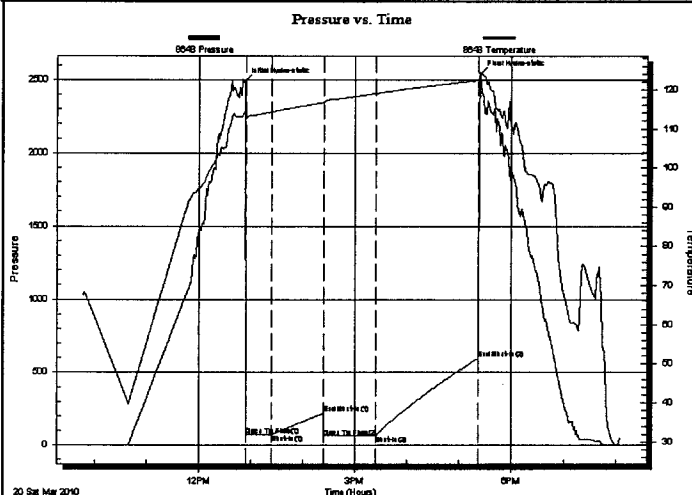
Capacity: **8000.00 psig**

Last Calib.: **2010.03.20**

Time On Btm: **2010.03.20 @ 12:52:00**

Time Off Btm: **2010.03.20 @ 17:24:20**

TEST COMMENT: IF: Strong blow, built to BOB in 1 minute.
IS: Bled off, no blow back.
FF: Strong blow, built to BOB in 5 seconds.
FS: Bled off, no blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2489.12	114.04	Initial Hydro-static
3	67.36	112.48	Open To Flow (1)
32	71.51	114.25	Shut-In(1)
92	220.19	116.72	End Shut-In(1)
93	52.06	116.67	Open To Flow (2)
152	66.18	118.98	Shut-In(2)
271	597.90	122.42	End Shut-In(2)
273	2540.20	123.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drilling Mud 100% _m	0.30
0.00	1240' Gas In Pipe	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hart Energies, LLC

STRANATHAN #1

6903 So. 78th East Ave.
Tulsa, OK 74133

28 34S 10W Barber KS

Job Ticket: 36253

DST#: 3

ATTN: William G. Hart

Test Start: 2010.03.20 @ 09:47:00

Tool Information

Drill Pipe:	Length: 4700.00 ft	Diameter: 3.80 inches	Volume: 65.93 bbl	Tool Weight: 3500.00 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: 246.00 ft	Diameter: 2.25 inches	Volume: 1.21 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume:	67.14 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4961.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	102.00 ft			
Tool Length:	122.00 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			4946.00	
Hydraulic tool	5.00			4951.00	
Packer	5.00			4956.00	20.00 Bottom Of Top Packer
Packer	5.00			4961.00	
Stubb	1.00			4962.00	
Perforations	6.00			4968.00	
Blank Spacing	65.00			5033.00	
Recorder	0.00	8648	Inside	5033.00	
Recorder	0.00	6799	Inside	5033.00	
Perforations	25.00			5058.00	
Bullnose	5.00			5063.00	102.00 Bottom Packers & Anchor

Total Tool Length: 122.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hart Energies, LLC

STRANATHAN #1

6903 So. 78th East Ave.
Tulsa, OK 74133

28 34S 10W Barber KS

Job Ticket: 36253

DST#: 3

ATTN: William G. Hart

Test Start: 2010.03.20 @ 09:47:00

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Drilling Mud 100% _m	0.295
0.00	1240' Gas In Pipe	0.000

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

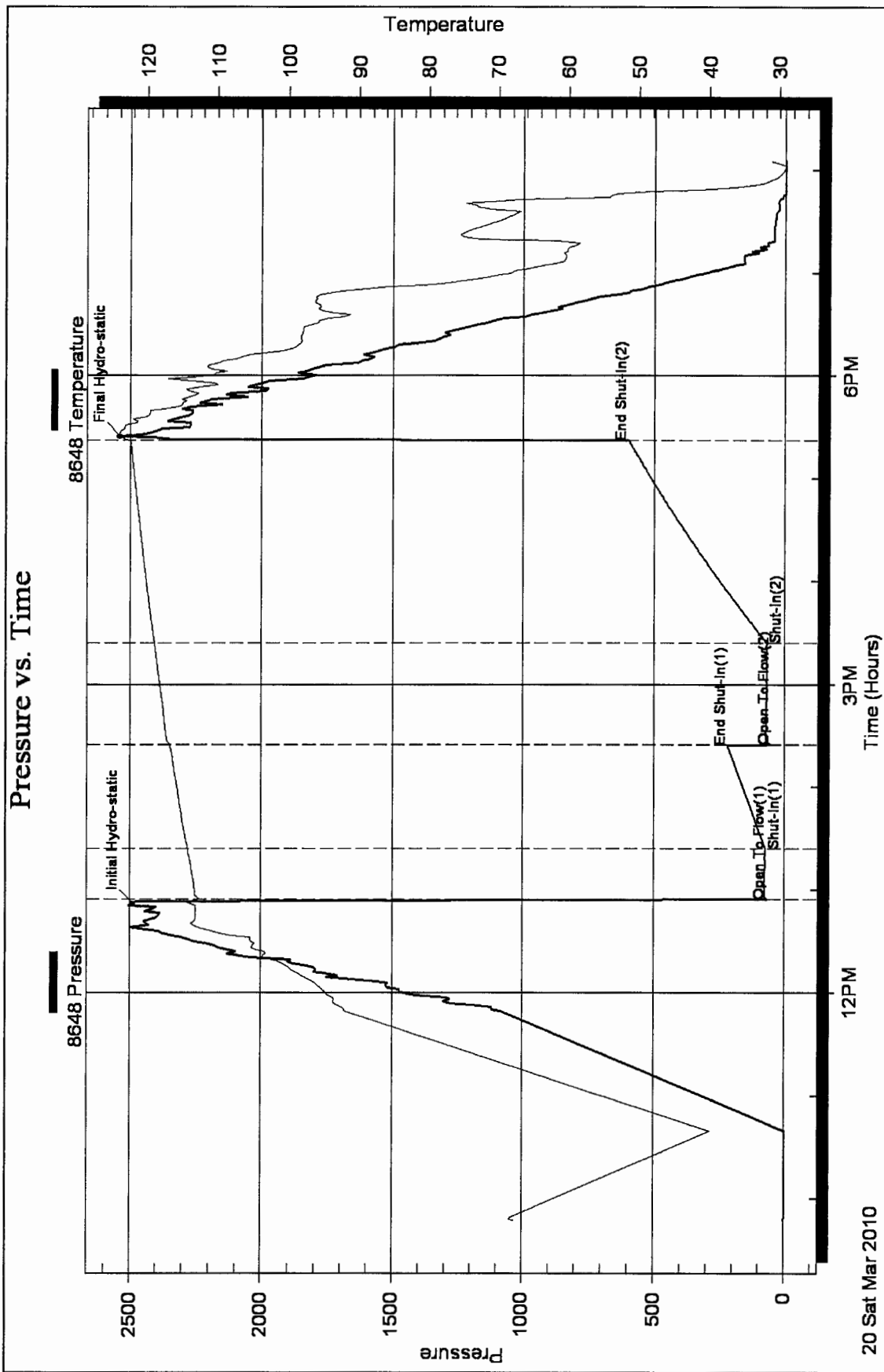
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 25 2010

Test Ticket

NO. 36251/14050

Well Name & No. STRANATHAN #1 BY: _____ Test No. 1 Date 18, MARCH 2010
Company HART ENERGIES, L.L.C. Elevation 1333 KB 1.323 GL
Address 6903 SO. 78TH EAST AVENUE, TULSA, OKLAHOMA, 74133
Co. Rep / Geo. WILLIAM G. HART Rig H-2 DRILL, RIG #3
Location: Sec. 28 Twp. 34S Rge. 10W Co. BARBER State KANSAS

Interval Tested 4700-4718 Zone Tested MISSISSIPPIAN
Anchor Length 18 Drill Pipe Run 4450' Mud Wt. 9.3
Top Packer Depth 4695 Drill Collars Run 246' Vis 53
Bottom Packer Depth 4700 Wt. Pipe Run NONE WL 8.8
Total Depth 4718 Chlorides 3,000 ppm System LCM 2#

Blow Description IF: STRONG BLOW, BUILT TO BOB IN 1 1/2 MINUTES.
ISF: BLED OFF, GTS WHILE BLEEDING OFF, NO BLOWBACK.
FF: STRONG BLOW, BOB IMMEDIATELY.
FSI: BLED OFF, NO BLOWBACK.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>GC 504W CM</u>	<u>10</u>	<u>2</u>	<u>3</u>	<u>85</u>
<u>60</u>	<u>GC 500 WCM</u>	<u>10</u>	<u>3</u>	<u>25</u>	<u>62</u>
<u>—</u>	<u>G.T.S.</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>—</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>
<u>—</u>	<u>Feet of</u>	<u>%gas</u>	<u>%oil</u>	<u>%water</u>	<u>%mud</u>

Rec Total 130 BHT 130°F Gravity NA API RW .152 @ 59 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic	<u>2259</u>	☒ Test	<u>1150</u>	T-On Location	<u>0200</u>
(B) First Initial Flow	<u>15</u>	☐ Jars		T-Started	<u>0307</u>
(C) First Final Flow	<u>47</u>	☐ Safety Joint		T-Open	<u>0702</u>
(D) Initial Shut-In	<u>1721</u>	☒ Circ Sub	<u>NO CHARGE</u>	T-Pulled	<u>1052</u>
(E) Second Initial Flow	<u>19</u>	☒ Hourly Standby	<u>1 1/2 HOUR</u>	T-Out	<u>1330</u>
(F) Second Final Flow	<u>58</u>	☒ Mileage	<u>120 R.T. PRAT</u>	Comments	<u>ISW: 69,000</u> <u>FSW: 69,000</u> <u>WPL: 80,000</u>
(G) Final Shut-In	<u>1626</u>	☐ Sampler			
(H) Final Hydrostatic	<u>2250</u>	☐ Straddle			

Initial Open	<u>30</u>	☐ Shale Packer		☐ Ruined Shale Packer	
Initial Shut-In	<u>60</u>	☐ Extra Packer		☐ Ruined Packer	
Final Flow	<u>45</u>	☐ Extra Recorder		☐ Extra Copies	
Final Shut-In	<u>90</u>	☐ Day Standby		Sub Total	<u>0</u>
		☐ Accessibility		Total	<u>1270</u>
		Sub Total	<u>1270</u>		

Approved By William G. Hart Our Representative Scott E. Schubert
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.

CELL: 785-650-7709



GAS VOLUME REPORT

STRANATHAN #1

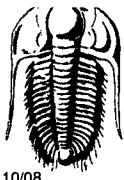
OPERATOR

WELL NAME AND NO.

DST NO.

FINAL FLOW PERIOD

Remarks: GAS SAMPLE RECOVERED, WILL BE SENT TO CARAWAY ANALYTICAL LAB IN LIBERAL KANSAS.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 25 2010

Test Ticket

NO. 36252

Well Name & No. STRANATHAN #1 Test No. 2 Date 19 MARCH 2010
Company HART ENERGIES, L.L.C. Elevation 1333 KB 1323 GL
Address WILLIAM G. HART
Co. Rep / Geo. _____ Rig H-2 DRILL CO, REG #3
Location: Sec. 28 Twp. 34S Rge. 10W Co. BARBER State KANSAS

Interval Tested 4718 - 4735 Zone Tested MISSISSIPPIAN
Anchor Length 17 Drill Pipe Run 4455' Mud Wt. 9.3
Top Packer Depth 4713 Drill Collars Run 246' Vis 53
Bottom Packer Depth 4718 Wt. Pipe Run NONE WL 8.8
Total Depth 4735 Chlorides 3000 ppm System LCM 2*

Blow Description IF: WEAK BLOW, BUILT TO 5"
IST: NO BLOWBACK.
FF: WEAK BLOW, BUILT TO 7 1/2"
FSF: NO BLOWBACK.

Rec	Feet of	%gas	%oil	%water	%mud
<u>85</u>	<u>SO CM</u>	<u>5</u>		<u>95</u>	
<u>75</u>	<u>SMCW</u>		<u>90</u>	<u>10</u>	
<u>—</u>	<u>150' GIP.</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 160 BHT 124°F Gravity NA API RW .192 @ 52 °F Chlorides 55,000 ppm

(A) Initial Hydrostatic	<u>2298</u>	☒ Test	<u>1150'</u>	T-On Location	<u>2045</u>
(B) First Initial Flow	<u>23</u>	☐ Jars		T-Started	<u>2050</u>
(C) First Final Flow	<u>55</u>	☐ Safety Joint		T-Open	<u>2327</u>
(D) Initial Shut-In	<u>1758</u>	☒ Circ Sub	<u>NO CHARGE</u>	T-Pulled	<u>0324</u>
(E) Second Initial Flow	<u>56</u>	☐ Hourly Standby		T-Out	<u>0600</u>
(F) Second Final Flow	<u>92</u>	☒ Mileage	<u>120 R.T. PRAT</u>	Comments	<u>ISW: 69000</u>
(G) Final Shut-In	<u>1713</u>	☐ Sampler			<u>FSW: 69000</u>
(H) Final Hydrostatic	<u>2291</u>	☐ Straddle			<u>WPL: 85,000</u>

Initial Open	<u>30</u>	☐ Shale Packer		☐ Ruined Shale Packer	
Initial Shut-In	<u>60</u>	☐ Extra Packer		☐ Ruined Packer	
Final Flow	<u>45</u>	☐ Extra Recorder		☐ Extra Copies	
Final Shut-In	<u>90</u>	☐ Day Standby		Sub Total	<u>0</u>
		☐ Accessibility		Total	<u>1270</u>
		Sub Total	<u>1270</u>		

Approved By

W. M. Hart

Our Representative

Scott E. Faber

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.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
MAR 25 2010

Test Ticket

NO. 36253

Well Name & No. STRANATHAN #1 Test No. 3 Date 20. MAR 2010
 Company HART ENERGIES, LLC Elevation 1333 KB 1323 GL
 Address 6903 So. 78TH EAST AVENUE, TULSA, OKLAHOMA, 74133
 Co. Rep / Geo. WILLIAM G. HART Rig H-2 DRILLING CO., RIG #3
 Location: Sec. 28 Twp. 34 Rge. 10W Co. BARBER State KANSAS

Interval Tested 4961-5063 Zone Tested MISNER SAND
 Anchor Length 102 Drill Pipe Run 4700' Mud Wt. 9.3
 Top Packer Depth 4956 Drill Collars Run 246' Vis 53
 Bottom Packer Depth 4961 Wt. Pipe Run NONE WL 8.8
 Total Depth 5063 Chlorides 3000 ppm System LCM 2"

Blow Description IF: STRONG BLOW, BUILT TO BOB IN 1 MINUTE.
ISI: BLED OFF, NO BLOWBACK.
FF: STRONG BLOW, BUILT TO BOB IN 5 SECONDS.
FST: BLED OFF, NO BLOWBACK.

Rec <u>60</u>	Feet of <u>DRILLING MUD</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of <u>1240' GAS IN PIPE</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 122°F Gravity NA API RW — @ — °F Chlorides NA ppm

(A) Initial Hydrostatic <u>2489</u>	☒ Test <u>11 HOURS ALLOWED 12:00</u>	T-On Location <u>06:30</u>
(B) First Initial Flow <u>67</u>	☐ Jars	T-Started <u>09:47</u>
(C) First Final Flow <u>72</u>	☐ Safety Joint	T-Open <u>12:54</u>
(D) Initial Shut-In <u>220</u>	☒ Circ Sub <u>NO CHARGE</u>	T-Pulled <u>17:22</u>
(E) Second Initial Flow <u>52</u>	☒ Hourly Standby <u>2 1/2 HOUR</u>	T-Out <u>20:00</u>
(F) Second Final Flow <u>66</u>	☒ Mileage <u>120 R.T. FRM</u>	Comments
(G) Final Shut-In <u>598</u>	☐ Sampler	
(H) Final Hydrostatic <u>2487-2847</u>	☐ Straddle	

Initial Open <u>30</u>	☐ Shale Packer	☐ Ruined Shale Packer
Initial Shut-In <u>60</u>	☐ Extra Packer	☐ Ruined Packer
Final Flow <u>60</u>	☐ Extra Recorder	☐ Extra Copies
Final Shut-In <u>120</u>	☐ Day Standby	Sub Total <u>Ø</u>
	☐ Accessibility	Total <u>1370-</u>
	Sub Total <u>1370-</u>	

Approved By W. J. L. L. L. Our Representative Paul J. L. L. L.

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