



DRILL STEM TEST REPORT

Prepared For: **Hesse Petroleum Co LLC**

400 N Woodlawn Ste #7
Wichita KS 67208

ATTN: Pat Deenihan

27 24 9W Reno KS

Gagnebin #1-27

Start Date: 2006.11.23 @ 12:25:18

End Date: 2006.11.23 @ 20:38:48

Job Ticket #: 25469 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

Hesse Petroleum Co LLC

400 N Woodlaw n Ste #7
Wichita KS 67208

ATTN: Pat Deenihan

Gagnebin #1-27

27 24 9W Reno KS

Job Ticket: 25469

DST#: 1

Test Start: 2006.11.23 @ 12:25:18

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:44:18

Time Test Ended: 20:38:48

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 36

Interval: **3552.00 ft (KB) To 3577.00 ft (KB) (TVD)**

Total Depth: 3577.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1669.00 ft (KB)

1664.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 55.94 psig @ 3553.00 ft (KB)

Start Date: 2006.11.23

End Date:

2006.11.23

Capacity: 7000.00 psig

Last Calib.: 2006.11.23

Start Time: 12:25:23

End Time:

20:38:47

Time On Btm: 2006.11.23 @ 14:43:48

Time Off Btm: 2006.11.23 @ 18:29:47

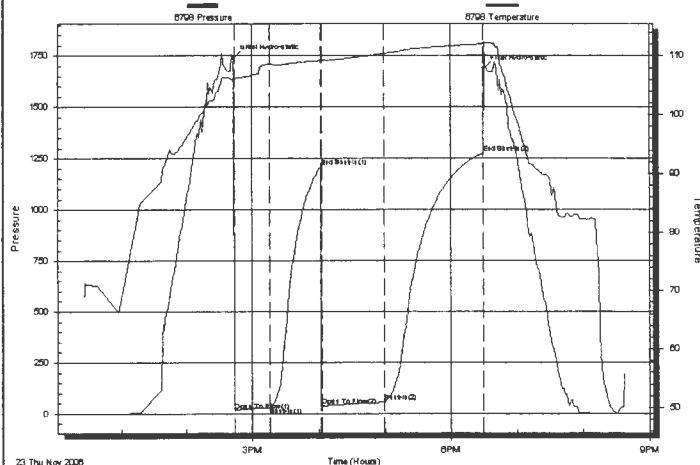
TEST COMMENT: IF Weak blow Built to 1 1/2 "

ISI No blow

FF No blow

FSI No blow

Pressure vs. Time



PRESSURE SUMMARY

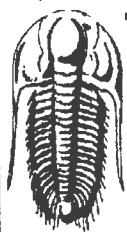
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1737.62	105.99	Initial Hydro-static
1	14.86	105.78	Open To Flow (1)
32	31.36	108.61	Shut-In (1)
78	1210.68	109.19	End Shut-In (1)
80	37.75	109.24	Open To Flow (2)
136	55.94	110.38	Shut-In (2)
225	1276.49	112.01	End Shut-In (2)
226	1686.28	112.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	SGCMW 2%G 58%W 40%M	0.34
0.00	RW= .121 @ 58 deg. 75000 ppm	0.00
0.00		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

Hesse Petroleum Co LLC

400 N Woodlawn Ste #7
Wichita KS 67208

ATTN: Pat Deenihan

Gagnebin #1-27

27 24 9W Reno KS

Job Ticket: 25469

DST#: 1

Test Start: 2006.11.23 @ 12:25:18

Tool Information

Drill Pipe:	Length: 3319.00 ft	Diameter: 3.80 inches	Volume: 46.56 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 47.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3552.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 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			3537.00	
Hydraulic tool	5.00			3542.00	
Packer	5.00			3547.00	20.00 Bottom Of Top Packer
Packer	5.00			3552.00	
Stubb	1.00			3553.00	
Recorder	0.00	6798	Inside	3553.00	
Perforations	21.00			3574.00	
Recorder	0.00	13249	Outside	3574.00	
Bullnose	3.00			3577.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Hesse Petroleum Co LLC

Gagnebin #1-27

400 N Woodlawn Ste #7
Wichita KS 67208

27 24 9W Reno KS

Job Ticket: 25469

DST#: 1

ATTN: Pat Deenihan

Test Start: 2006.11.23 @ 12:25:18

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	SGCMW 2%G 58%W 40%M	0.344
0.00	RW= .121 @ 58 deg. 75000 ppm	0.000
0.00		0.000

Total Length: 70.00 ft

Total Volume: 0.344 bbl

Num Fluid Samples: 0

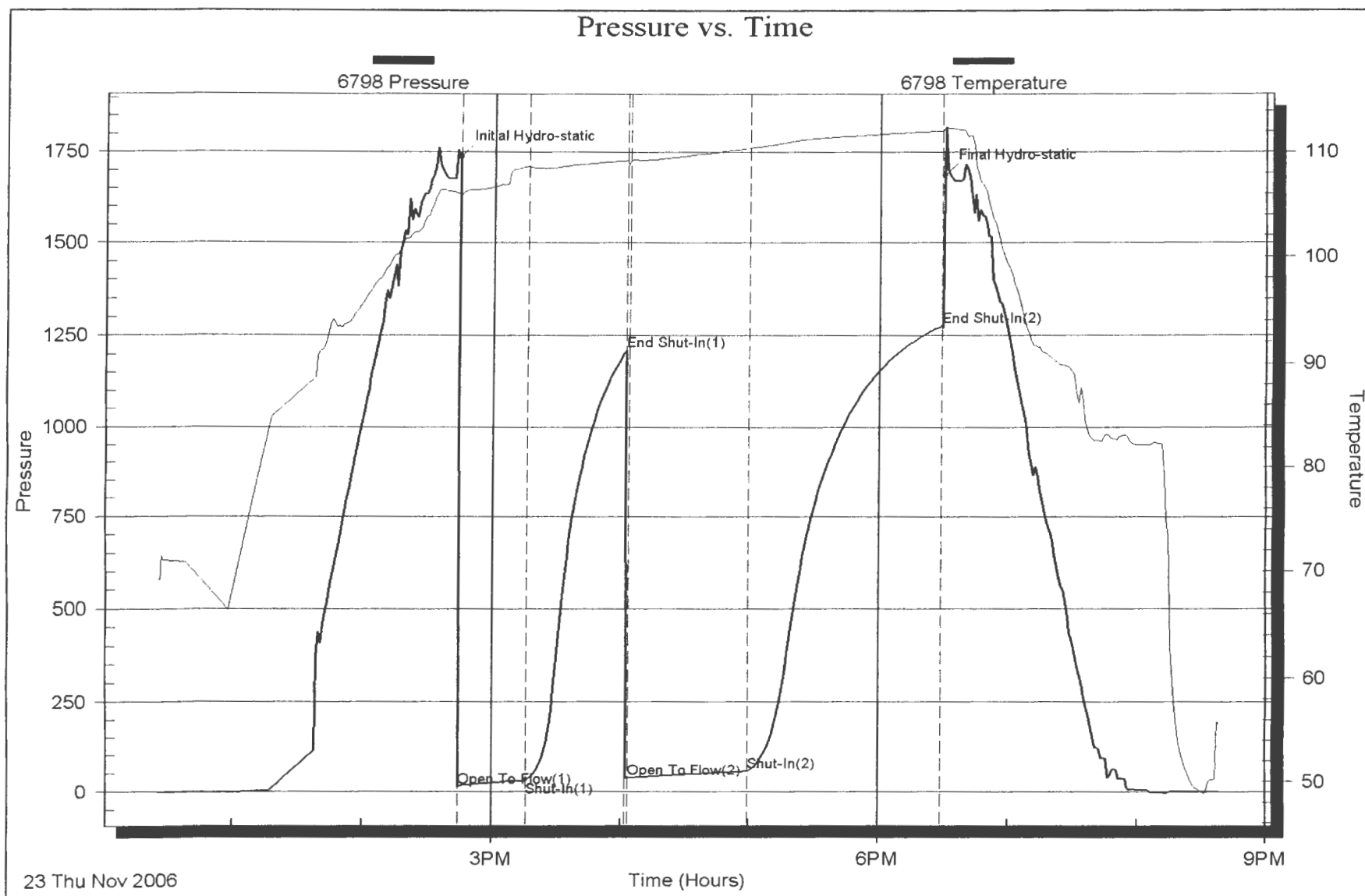
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Hesse Petroleum Co LLC**

400 N Woodlawn Ste #7
Wichita KS 67208

ATTN: Pat Deenihan

27 24 9W Reno KS

Gagnebin #1-27

Start Date: 2006.11.24 @ 21:39:14

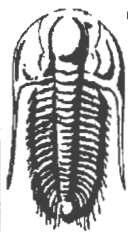
End Date: 2006.11.25 @ 06:05:14

Job Ticket #: 25470 DST #: 2

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DRILL STEM TEST REPORT

Hesse Petroleum Co LLC

400 N Woodlawn Ste #7
Wichita KS 67208

ATTN: Pat Deenihan

Gagnebin #1-27

27 24 9W Reno KS

Job Ticket: 25470

DST#: 2

Test Start: 2006.11.24 @ 21:39:14

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:51:44

Time Test Ended: 06:05:14

Test Type: Conventional Bottom Hole

Tester: Gerald Adams

Unit No: 36

Interval: **3737.00 ft (KB) To 3797.00 ft (KB) (TVD)**

Total Depth: 3797.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1669.00 ft (KB)

1664.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6798

Inside

Press@RunDepth: 161.66 psig @ 3738.00 ft (KB)

Start Date: 2006.11.24

End Date:

2006.11.25

Capacity: 7000.00 psig

Last Calib.: 2006.11.25

Start Time: 21:39:19

End Time:

06:05:13

Time On Btm: 2006.11.24 @ 23:50:44

Time Off Btm: 2006.11.25 @ 03:35:13

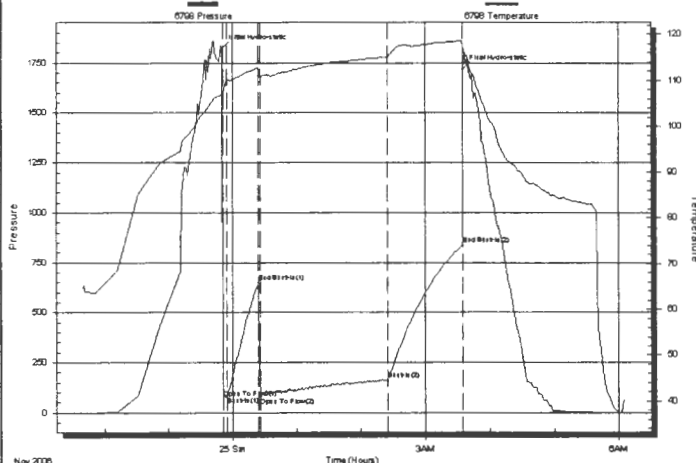
TEST COMMENT: IF Strong blow BOB in 2 1/2 mins.

ISI No blow

FF Strong blow BOB in 30 secs. GTS in 28 mins. (see gas flow report)

FSI Weak surface blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.10	106.84	Initial Hydro-static
1	69.91	107.41	Open To Flow (1)
4	83.78	109.88	Shut-In (1)
34	650.01	112.73	End Shut-In (1)
36	74.57	110.77	Open To Flow (2)
154	161.66	115.08	Shut-In (2)
224	839.23	118.63	End Shut-In (2)
225	1718.89	117.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
365.00	HGOM 20%G 80%M	2.92
0.00	3387' GIP	0.00
0.00		0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.80
Last Gas Rate	0.13	21.00	13.29
Max. Gas Rate	0.13	21.00	13.29



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Hesse Petroleum Co LLC

400 N Woodlawn Ste #7
Wichita KS 67208

ATTN: Pat Deenihan

Gagnebin #1-27

27 24 9W Reno KS

Job Ticket: 25470

DST#: 2

Test Start: 2006.11.24 @ 21:39:14

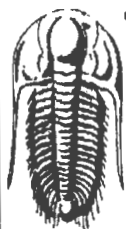
Tool Information

Drill Pipe:	Length: 3510.00 ft	Diameter: 3.80 inches	Volume: 49.24 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: 242.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 115000.0 lb
		Total Volume: 50.43 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	3737.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	80.00 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			3722.00	
Hydraulic tool	5.00			3727.00	
Packer	5.00			3732.00	20.00 Bottom Of Top Packer
Packer	5.00			3737.00	
Stubb	1.00			3738.00	
Recorder	0.00	6798	Inside	3738.00	
Change Over Sub	1.00			3739.00	
Blank Spacing	31.00			3770.00	
Change Over Sub	1.00			3771.00	
Perforations	23.00			3794.00	
Recorder	0.00	13249	Outside	3794.00	
Bullnose	3.00			3797.00	60.00 Bottom Packers & Anchor

Total Tool Length: 80.00



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FLUID SUMMARY

Hesse Petroleum Co LLC

Gagnebin #1-27

400 N Woodlaw n Ste #7
Wichita KS 67208

27 24 9W Reno KS

Job Ticket: 25470

DST#: 2

ATTN: Pat Deenihan

Test Start: 2006.11.24 @ 21:39:14

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 10.38 in³

Resistivity: 0.00 ohm.m

Salinity: 7300.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
365.00	HGCM 20%G 80%M	2.915
.000	3387' GIP	0.000
0.00		0.000

Total Length: 365.00 ft

Total Volume: 2.915 bbl

Num Fluid Samples: 0

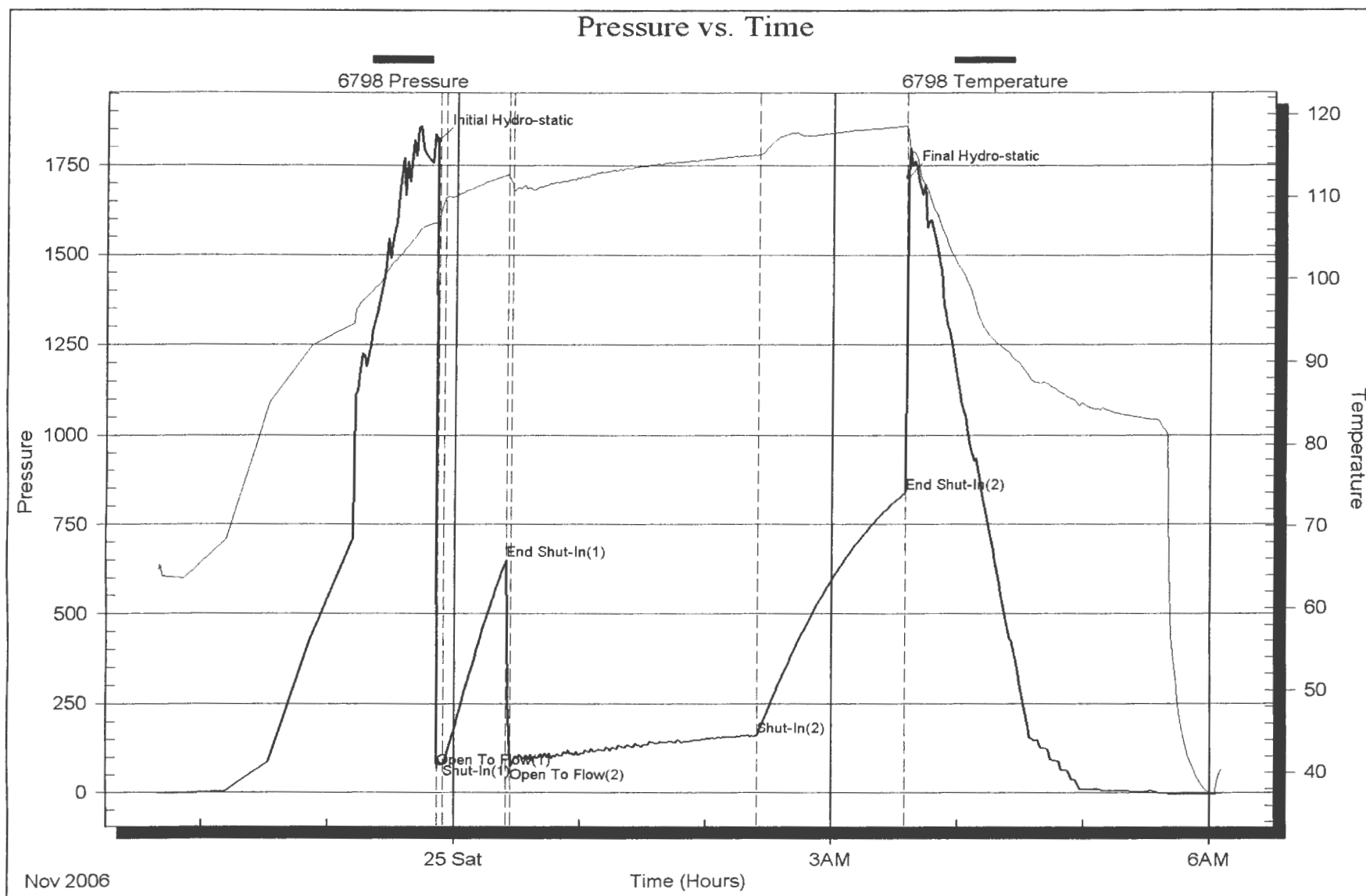
Num Gas Bombs: 1

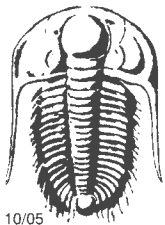
Serial #: GA-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9509 ✓

25469

Test Ticket

Well Name & No. Gagnebin #1-27 Test No. 1 Date 11-23-06
Company Hesse Petroleum Company, LLC Zone Tested Swope
Address 400 N. Woodlawn, Ste. #7 Wichita, Ks. 67208 Elevation 1669 KB 1664 GL
Co. Rep / Geo. Pat Deenihan Rig Pickrell #1
Location: Sec. 27 Twp. 24S Rge. 09W Co. Reno State Ks.
Comment: _____ Release date / time: _____

Interval Tested 3552-3577 Initial Str Wt./Lbs. 68,000 Unseated Str Wt./Lbs. 68,000
Anchor Length 25' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 72,000
Top Packer Depth 3547 Tool Weight 2,100
Bottom Packer Depth 3552 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
Total Depth 3577 Wt. Pipe Run 0 Drill Collar Run 242
Mud Wt. 9.0 LCM 0 Vis. 45 WL 9.6 Drill Pipe Size 4 1/8" XH Ft. Run 3319
Blow Description IF: Weak blow Built to 1 1/2"

ISI: No blow.

FF: No blow.

FSI: No blow.

Recovery - Total Feet 70 GIP 0 Ft. in DC 70 Ft. in DP 0
Rec. 70 Feet of SGCMW 2% gas %oil 58% water 40% mud
Rec. _____ Feet of _____ %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
BHT 112 °F Gravity N/C °API D @ _____ °F Corrected Gravity _____ °API
RW .121 @ 58 °F Chlorides 75,000 ppm Recovery _____ Chlorides 7,000 ppm System

AK-1

Alpine

(A) Initial Hydrostatic Mud	<u>1767</u>	PSI	Recorder No.	<u>6798</u>	Test ✓	<u>1100</u>
(B) First Initial Flow Pressure	<u>15</u>	PSI	(depth)	<u>3553</u>	Jars	_____
(C) First Final Flow Pressure	<u>31</u>	PSI	Recorder No.	<u>13249</u>	Safety Jt.	_____
(D) Initial Shut-In Pressure	<u>1211</u>	PSI	(depth)	<u>3574</u>	Circ Sub	_____
(E) Second Initial Flow Pressure	<u>38</u>	PSI	Recorder No.	_____	Sampler	_____
(F) Second Final Flow Pressure	<u>56</u>	PSI	(depth)	_____	Straddle	_____
(G) Final Shut-In Pressure	<u>1276</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	_____
(Q) Final Hydrostatic Mud	<u>1819</u>	PSI	Initial Shut-In	<u>45</u>	Shale Packer	_____

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Approved By Pat Deenihan

Our Representative Gerald Adams

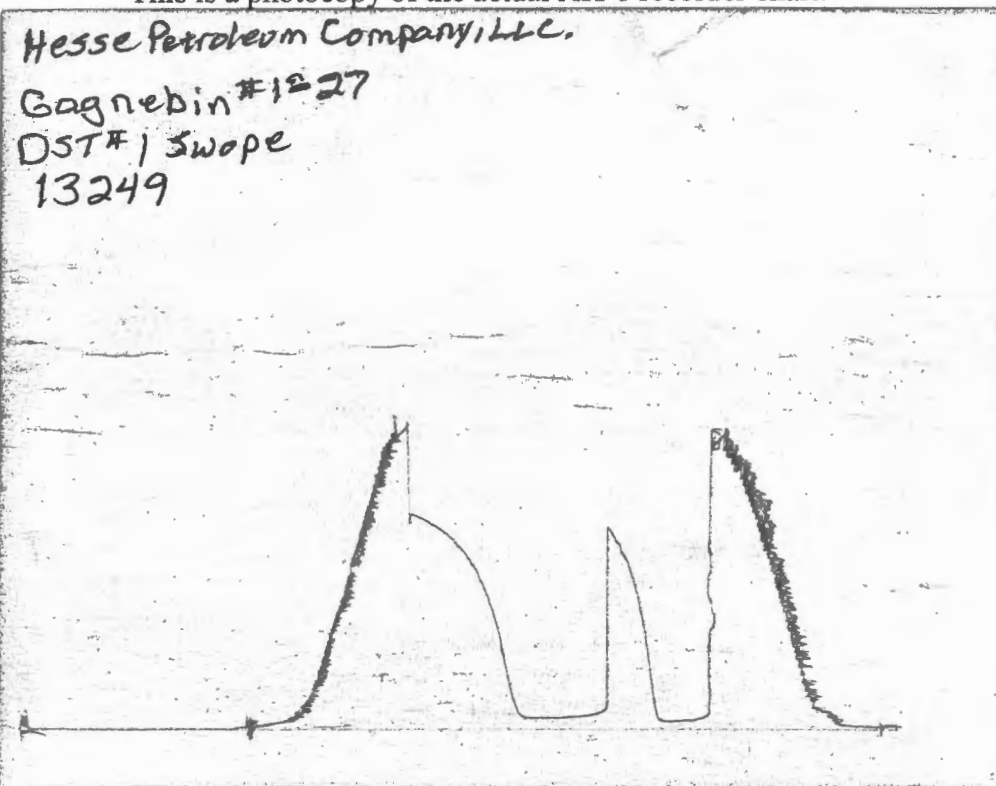
Thank
You.

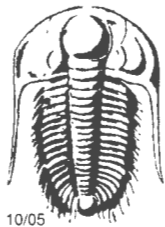
Final Flow 60
Final Shut-In 90
T-On Location 1145
T-Started 1225
T-Open 1444
T-Pulled 1830
T-Out 2038

Ruined Packer 81.25
Mileage ✓ 65 R.T.
Sub Total: _____
Std. By 44 75
Acc. Chg: _____
Other: _____
Total: \$1256.25

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25470

Test Ticket

Well Name & No. <u>Gagnebin #1-27</u>	Test No. <u>2</u>	Date <u>11-24-06</u>
Company <u>Hesse Petroleum Company, LLC</u>	Zone Tested <u>Mississippi</u>	
Address <u>400 N. Woodlawn, Ste #7 Wichita, Kansas 67208</u>	Elevation <u>1669</u>	KB <u>1664</u> GL
Co. Rep / Geo. <u>Pat Deenihan</u>	Rig <u>Pickrell #1</u>	
Location: Sec. <u>27</u> Twp. <u>24S</u> Rge. <u>09W</u>	Co. <u>Reno</u>	State <u>Ks.</u>
Comment: _____		Release date / time: _____

Interval Tested <u>3737-3797</u>	Initial Str Wt./Lbs. <u>72,000</u>	Unseated Str Wt./Lbs. <u>73,000</u>
Anchor Length <u>60</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>115,000</u>
Top Packer Depth <u>3732</u>	Tool Weight <u>2,100</u>	
Bottom Packer Depth <u>3737</u>	Hole Size <u>7 7/8" ✓</u>	Rubber Size <u>6 3/4" ✓</u>
Total Depth <u>3797</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>242</u>
Mud Wt. <u>9.3</u> LCM <u>0</u> Vis. <u>50</u> WL <u>10.4</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>3510</u>

Blow Description IF: Strong blow. B.O.B. in 2 1/2 mins.

ISI: No blow.

FF: Strong blow. B.O.B. in 30 secs. GTS. in 28 mins. (see gas flow report.)

FST: Weak surface blow.

Recovery - Total Feet <u>365</u>	GIP <u>3387</u>	Ft. in DC <u>242</u>	Ft. in DP <u>123</u>
Rec. <u>365</u>	Feet of <u>4 GCM</u>	<u>20%</u> gas	%oil %water <u>80</u> %mud
Rec. _____	Feet of _____	%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

BHT 118 °F Gravity N/C °API D @ _____ °F Corrected Gravity _____ °API

RW N/C @ _____ °F Chlorides 7,300 ppm Recovery _____ Chlorides 7,300 ppm System

(A) Initial Hydrostatic Mud	<u>1838</u> PSI	Recorder No. <u>6798</u>	Test <u>✓</u> <u>1100</u>
(B) First Initial Flow Pressure	<u>70</u> PSI	(depth) <u>3738</u>	Jars _____
(C) First Final Flow Pressure	<u>84</u> PSI	Recorder No. <u>13249</u>	Safety Jt. _____
(D) Initial Shut-In Pressure	<u>650</u> PSI	(depth) <u>3794</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>75</u> PSI	Recorder No. _____	Sampler _____
(F) Second Final Flow Pressure	<u>162</u> PSI	(depth) _____	Straddle _____
(G) Final Shut-In Pressure	<u>839</u> PSI	Initial Opening <u>3</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>1826</u> PSI	Initial Shut-In <u>30</u>	Shale Packer _____
		Final Flow <u>120</u>	Ruined Packer <u>81.25</u>
		Final Shut-In <u>60</u>	Mileage <u>✓</u> <u>65 R.T.</u>
		T-On Location <u>2130</u>	Sub Total: _____
		T-Started <u>2139</u>	Std. By <u>12</u> <u>50</u>
		T-Open <u>2351</u>	Acc. Chg: _____
		T-Pulled <u>0335</u>	Other: _____
		T-Out <u>0605</u>	Total: <u>\$ 1231.25</u>

Approved By Pat Deenihan

Our Representative Gerald Adams

Thank
You.

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GAS VOLUME REPORT

OPERATOR

WELL NAME AND NO.

2
DST NO.

Final Opening

Remarks:

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

