

DRILL STEM TEST REPORT

Prepared For: **EOG Resources**

3817 NW Ste 500
Oklahoma City OK 73112

ATTN: Herb

1 28 34 Haskell KS

Apsley #1-1

Start Date: 2006.11.25 @ 08:38:44

End Date: 2006.11.25 @ 21:45:14

Job Ticket #: 25878 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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TESTING, INC.

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Apsley #1-1
1 28 34 Haskell KS
Job Ticket: 25878 **DST#: 1**
Test Start: 2006.11.25 @ 08:38:44

GENERAL INFORMATION:

Formation: **Morrow sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:09:59
Time Test Ended: 21:45:14

Test Type: Conventional Bottom Hole
Tester: Travy Cushenbery
Unit No: 30

Interval: **5335.00 ft (KB) To 5373.00 ft (KB) (TVD)**
Total Depth: 5373.00 ft (KB) (TVD)
Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 3058.00 ft (KB)
3046.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6668

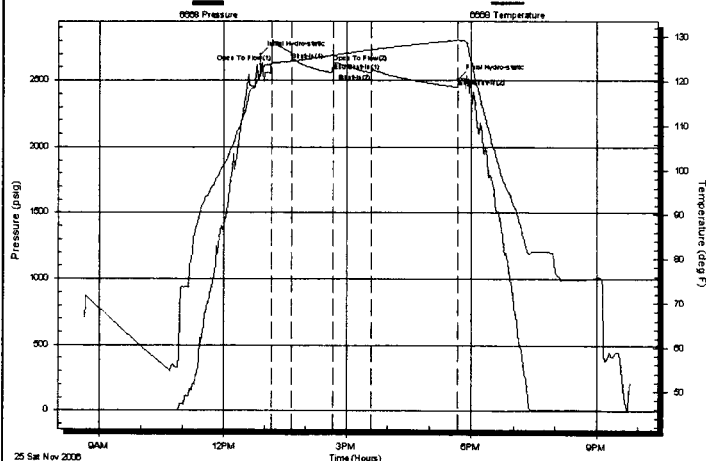
Inside

Press@RunDepth: 2554.65 psig @ 5335.00 ft (KB)
Start Date: 2006.11.25 End Date: 2006.11.25
Start Time: 08:38:49 End Time: 21:51:14

Capacity: 7000.00 psig
Last Calib.: 2006.11.25
Time On Btm: 2006.11.25 @ 12:53:29
Time Off Btm: 2006.11.25 @ 17:41:44

TEST COMMENT: IF No blow Made sure everything was open Bubbled when tool opened then no bubbles
ISI No blow back
FF No blow
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2691.29	121.46	Initial Hydro-static
17	2697.94	124.13	Open To Flow (1)
46	2709.72	124.55	Shut-In (1)
107	2563.67	125.90	End Shut-In (1)
107	2633.76	125.92	Open To Flow (2)
164	2554.65	127.15	Shut-In (2)
287	2448.54	129.31	End Shut-In (2)
289	2514.05	129.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	DM	0.07

Gas Rates

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

EOG Resources

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1 28 34 Haskell KS

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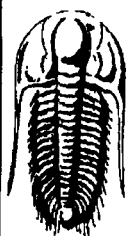
Tool Information

Drill Pipe:	Length: 4940.00 ft	Diameter: 3.80 inches	Volume: 69.30 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: 368.00 ft	Diameter: 2.25 inches	Volume: 1.81 bbl	Weight to Pull Loose: 88000.00 lb
			Total Volume: 71.11 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 86000.00 lb
Depth to Top Packer:	5335.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	70.00 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			5308.00	
Sampler	3.00			5311.00	
Hydraulic tool	5.00			5316.00	
Jars	5.00			5321.00	
Safety Joint	3.00			5324.00	
Packer	5.00			5329.00	32.00 Bottom Of Top Packer
Packer	6.00			5335.00	
Recorder	0.00	6668	Inside	5335.00	
Perforations	35.00			5370.00	
Recorder	0.00	13266	Outside	5370.00	
Bullnose	3.00			5373.00	38.00 Bottom Packers & Anchor

Total Tool Length: 70.00



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FLUID SUMMARY

EOG Resources

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Job Ticket: 25878

DST#: 1

ATTN: Herb

Test Start: 2006.11.25 @ 08:38:44

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	DM	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

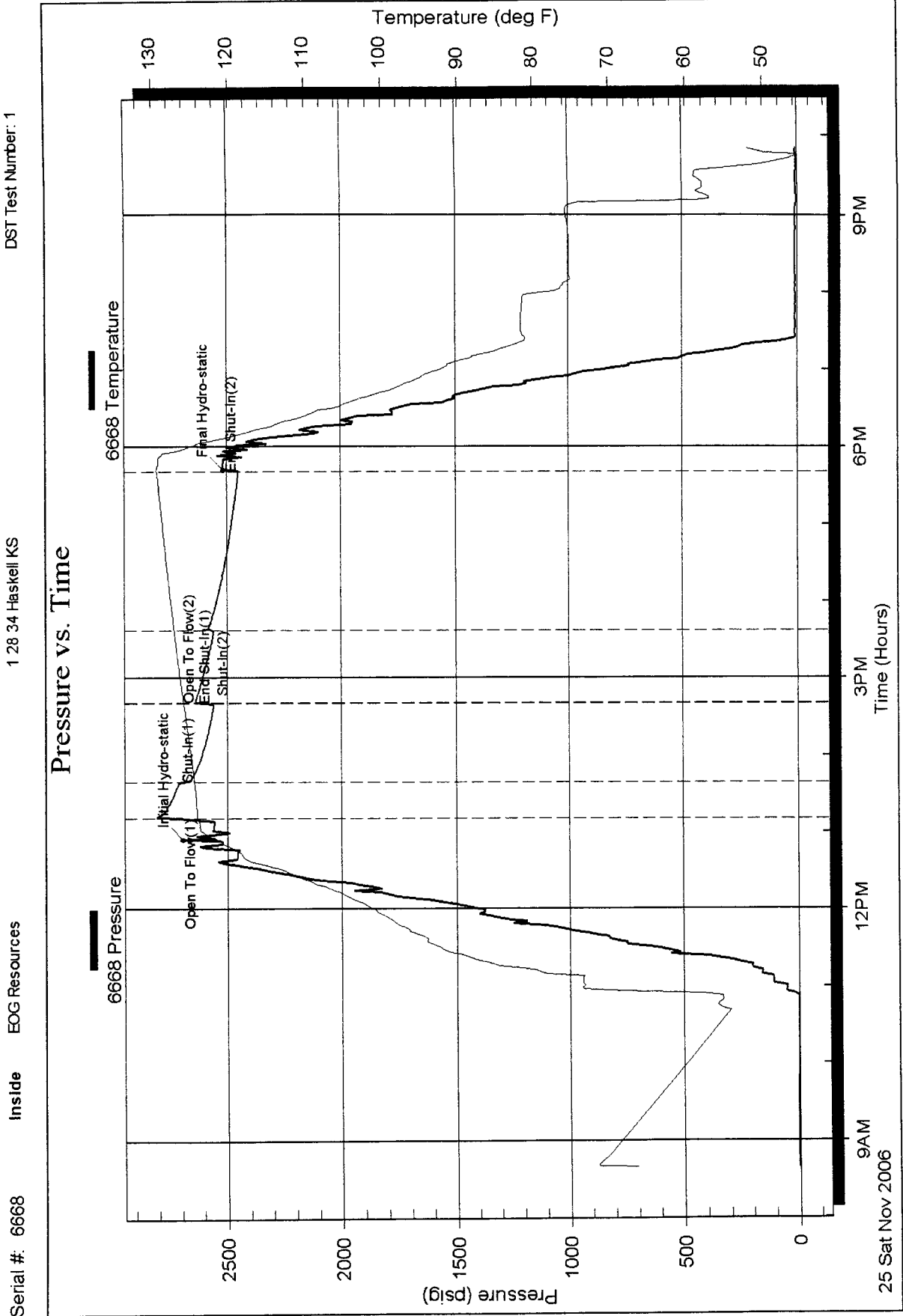
Num Gas Bombs: 0

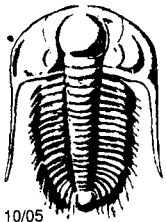
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25878

Test Ticket

Well Name & No. Apple 1 #1 Test No. #1 Date 11-25-06
 Company EOG Resources Zone Tested Morrow Sand
 Address 3817 NW Suite 300 OKC, OK 73112 Elevation 3058' KB 3046' GL
 Co. Rep / Geo. Herb Nutter Rig Alcumbria Rig #2
 Location: Sec. 1 Twp. 28S Rge. 34W Co. Haskell State KS
 Comment: _____ Release date / time: _____

Interval Tested 5335' - 5373' Initial Str Wt./Lbs. 86,000 Unseated Str Wt./Lbs. 88,000
 Anchor Length 38' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 38,000
 Top Packer Depth 5338' Tool Weight 2,100 lbs
 Bottom Packer Depth 5335' Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 5373' Wt. Pipe Run above Drill Collar Run 368'
 Mud Wt. 9 LCM 10 Vis. 47 WL 8 Drill Pipe Size 4 1/2 X H Ft. Run 4940'
 Blow Description IF: No blow, Made sure everything was open. bubbled when tool open
ISI: No blow back. then no bubble
FF: No blow.
FSI: No blow back.

Recovery - Total Feet 15' GIP 0 Ft. in DC 15' Ft. in DP 0
 Rec. 15' Feet of Drilling Mud
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 BHT 129 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 900 ppm System

AFE	☒ BCP	ACP	FAC	Other	Chem.
LOE	☒ New Add	Replace	Repair	General	
Well Name: <u>Apple 1 #1</u>					
Herb Nutter <u>205-623-7749</u> Approval Initials: <u>HN</u> Location: <u>OK</u>					
20 - 218		Perc Code <u>411</u>			

AK-1 Alpine

(A) Initial Hydrostatic Mud	<u>2691</u> PSI	Recorder No.	<u>60608</u>	Test	<u>✓</u> <u>1300</u>
(B) First Initial Flow Pressure	<u>2698</u> PSI	(depth)	<u>5335'</u>	Jars	<u>✓</u> <u>250</u>
(C) First Final Flow Pressure	<u>2710</u> PSI	Recorder No.	<u>132666</u>	Safety Jt.	<u>✓</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>2564</u> PSI	(depth)	<u>5370'</u>	Circ Sub	<u>✓</u> <u>50</u>
(E) Second Initial Flow Pressure	<u>2634</u> PSI	Recorder No.	_____	Sampler	<u>✓</u> <u>250</u>
(F) Second Final Flow Pressure	<u>2555</u> PSI	(depth)	_____	Straddle	_____
(G) Final Shut-In Pressure	<u>2449</u> PSI	Initial Opening	<u>30 mins</u>	Ext. Packer	_____
(Q) Final Hydrostatic Mud	<u>2514</u> PSI	Initial Shut-In	<u>60 mins</u>	Shale Packer	<u>✓</u> <u>200</u>
		Final Flow	<u>60 mins</u>	Ruined Packer	<u>435</u>
		Final Shut-In	<u>120 mins</u>	Mileage	<u>88</u> <u>✓</u> <u>348</u>
		T-On Location	<u>07:00</u>	Sub Total:	<u>4.75</u> <u>475</u>
		T-Started	<u>08:38</u>	Std. By	<u>3033</u>
		T-Open	<u>13:14</u>	Acc. Chg:	<u>✓</u> <u>150</u>
		T-Pulled	<u>17:44</u>	Other:	_____
		T-Out	<u>21:45</u>	Total:	<u>\$3185</u>

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Approved By Herb Nutter
 Our Representative Travis Custerberry

CHART PAGE

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

