

DRILL STEM TEST REPORT

Prepared For: **Docking Development,co**

P.O. Box 928
Arkansas City, KS
67005-0928

ATTN: Steve Davis

13-32s-2w

Andra #1-A

Start Date: 2001.11.09 @ 06:55:05

End Date: 2001.11.09 @ 16:26:20

Job Ticket #: 14114 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Docking Development,co

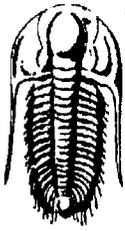
Andra #1-A

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DST # 2

Kansas City

2001.11.09



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Andra #1-A

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Job Ticket: 14114

DST#: 2

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Test Start: 2001.11.09 @ 06:55:05

GENERAL INFORMATION:

Formation: **Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:00:35

Time Test Ended: 16:26:20

Test Type: Conventional Bottom Hole

Tester: Darren L.Amerine

Unit No:

Interval: **3296.00 ft (KB) To 3310.00 ft (KB) (TVD)**

Reference Elevations: 1272.00 ft (KB)

Total Depth: 3310.00 ft (KB) (TVD)

1262.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 3302 Inside

Press@RunDepth: 240.43 psig @ 3297.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.11.09 End Date: 2001.11.09

Last Calib.: 2001.11.09

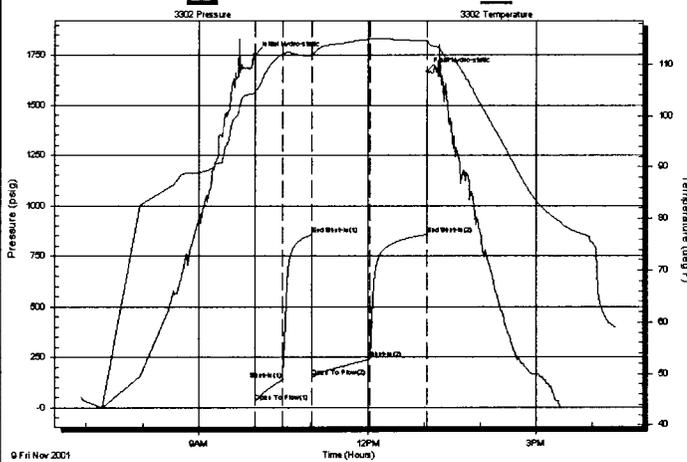
Start Time: 06:55:07 End Time: 16:26:20

Time On Btm: 2001.11.09 @ 10:00:20

Time Off Btm: 2001.11.09 @ 13:03:05

TEST COMMENT: F:Fair blow built to b.o.b in 13-1/2 mins.
IS:Bled down n for 1 min no blow back.
FF:Weak blow built to 3-1/2 " in H2O bucket.
FS:Bled down n for 2 mins.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1752.93	104.59	Initial Hydro-static
1	30.39	104.74	Open To Flow (1)
29	138.71	112.08	Shut-In(1)
60	855.33	111.64	End Shut-In(1)
61	152.07	111.43	Open To Flow (2)
123	240.43	115.01	Shut-In(2)
183	854.45	114.55	End Shut-In(2)
183	1668.51	114.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
404.00	153 - Salt Water	2.29
60.00	353 - Mud cut Salt Water	0.46
30.00	01 - Gas	0.23
0.00	RW .2@61F	0.00

Gas Rates

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



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TOOL DIAGRAM

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DST#: 2

ATTN: Steve Davis

Test Start: 2001.11.09 @ 06:55:05

Tool Information

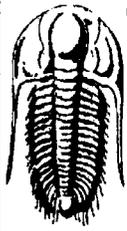
Drill Pipe:	Length: 2998.00 ft	Diameter: 2.80 inches	Volume: 22.83 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 292.00 ft	Diameter: 2.25 inches	Volume: 1.44 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 24.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3296.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool torqued up on final shut in pulled 15000 pounds off of tool to turn.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3274.00	
S.I. Tool	5.00			3279.00	
HMV	5.00			3284.00	
Safety Joint	2.00			3286.00	
Packer	5.00			3291.00	23.00 Bottom Of Top Packer
Packer	5.00			3296.00	
Stubb	1.00			3297.00	
Recorder	0.00	3302	Inside	3297.00	
Anchor	10.00			3307.00	
Recorder	0.00	13769	Outside	3307.00	
Bullnose	3.00			3310.00	14.00 Bottom Packers & Anchor

Total Tool Length: 37.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	75000 ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.18 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2800.00 ppm			
Filter Cake: 0.32 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
404.00	153 - Salt Water	2.289
60.00	353 - Mud cut Salt Water	0.457
30.00	01 - Gas	0.228
0.00	RW .2@61F	0.000

Total Length: 494.00 ft Total Volume: 2.974 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

