

TRILOBITE
TESTING, INC.

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JUL 15 2002
KCC WICHITA

DRILL STEM TEST REPORT

Release
AUG 1 2003
From Confidential
Prepared for: **Harris Oil & Gas Company**
1125 17th St. Ste2290
Denver, CO 80202
ATTN: Jeff Zoller

5 34S 30W
Wilson 1-5

Start Date: 2002.06.17 @ 12:47:06

End Date: 2002.06.18 @ 01:49:21

Job Ticket #: 15395

DST #: 1

KCC
JUL 12 2002
CONFIDENTIAL

Wilson 1-5

Sec. 5, T. 34 S., R. 30 W.

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Harris Oil & Gas Company

1125 17th St. Ste2290
Denver, CO 80202

ATTN: Jeff Zoller

Wilson 1-5

5 34s 30w

Job Ticket: 15395

DST#: 1

Test Start: 2002.06.17 @ 12:47:06

GENERAL INFORMATION:

Formation: **Morrow**

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

Time Tool Opened: 17:12:51

Time Test Ended: 01:49:21

Test Type: **Conventional Bottom Hole**

Tester: **Wenrich**

Unit No: **14**

Interval: **5780.00 ft (KB) To 5870.00 ft (KB) (TVD)**

Total Depth: **5870.00 ft (KB) (TVD)**

Hole Diameter: **7.79 inches** Hole Condition: **Fair**

Reference Elevations: **2710.00 ft (KB)**

2700.00 ft (CF)

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

Serial #: 3289

Inside

Press@RunDepth: **94.75 psig @ 5781.00 ft (KB)**

Start Date: **2002.06.17**

End Date:

2002.06.18

Capacity: **7000.00 psig**

Last Calib.: **1899.12.30**

Start Time: **12:47:11**

End Time:

01:49:21

Time On Btm: **2002.06.17 @ 17:11:36**

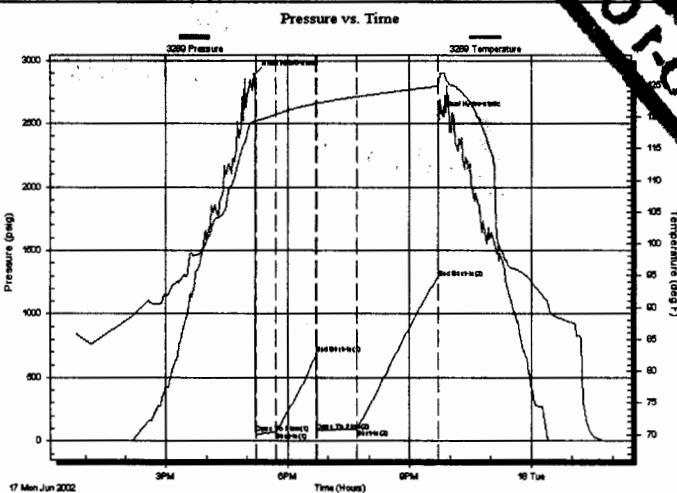
Time Off Btm: **2002.06.17 @ 21:43:06**

TEST COMMENT: IF:Strong blow .BOB in 3 min.

IS:No blow .

FF:Strong blow . BOB immediate

FS:No blow .



PRESSURE SUMMARY

Time (hr.)	Pressure (psig)	Temp (deg F)	Annotation
0	2888.93	119.51	Initial Hydro-static
32	63.21	119.34	Open To Flow (1)
32	71.76	120.38	Shut-in(1)
91	684.84	122.12	End Shut-in(1)
92	80.93	122.23	Open To Flow (2)
151	94.75	123.18	Shut-in(2)
271	1283.61	124.86	End Shut-in(2)
272	2568.32	125.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	gcm 7%g 93%m	0.59

Gas Rates

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

Harris Oil & Gas Company

Wilson 1-5

1125 17th St. Ste2290
Denver, CO 80202

5 34s 30w

Job Ticket: 15395

DST#: 1

ATTN: Jeff Zoller

Test Start: 2002.06.17 @ 12:47:06

Tool Information

Drill Pipe:	Length: 5201.00 ft	Diameter: 3.80 inches	Volume: 72.96 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: 559.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 115000.0 lb
			Total Volume: 75.71 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 106000.0 lb
Depth to Top Packer:	5780.00 ft			Final 108000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5754.00	
S.I. Tool	5.00			5759.00	
HMV	5.00			5764.00	
Jars	5.00			5769.00	
Safety Joint	2.00			5771.00	
Packer	4.00			5775.00	27.00 Bottom Of Top Packer
Packer	5.00			5780.00	
Stubb	1.00			5781.00	
Recorder	0.00	3289	Inside	5781.00	
Perforations	3.00			5784.00	
C.O. Sub	1.00			5785.00	
Blank Spacing	63.00			5848.00	
C.O. Sub	0.00			5848.00	
Perforations	20.00			5868.00	
Recorder	0.00	10242	Outside	5868.00	
Bullnose	2.00			5870.00	90.00 Bottom Packers & Anchor
Total Tool Length:		117.00			



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FLUID SUMMARY

Harris Oil & Gas Company

Wilson 1-5

1125 17th St. Ste2290
Denver, CO 80202

5 34s 30w

Job Ticket: 15395

DST#: 1

ATTN: Jeff Zoller

Test Start: 2002.06.17 @ 12:47:06

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: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2200.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	gcm 7%g 93%m	0.590

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

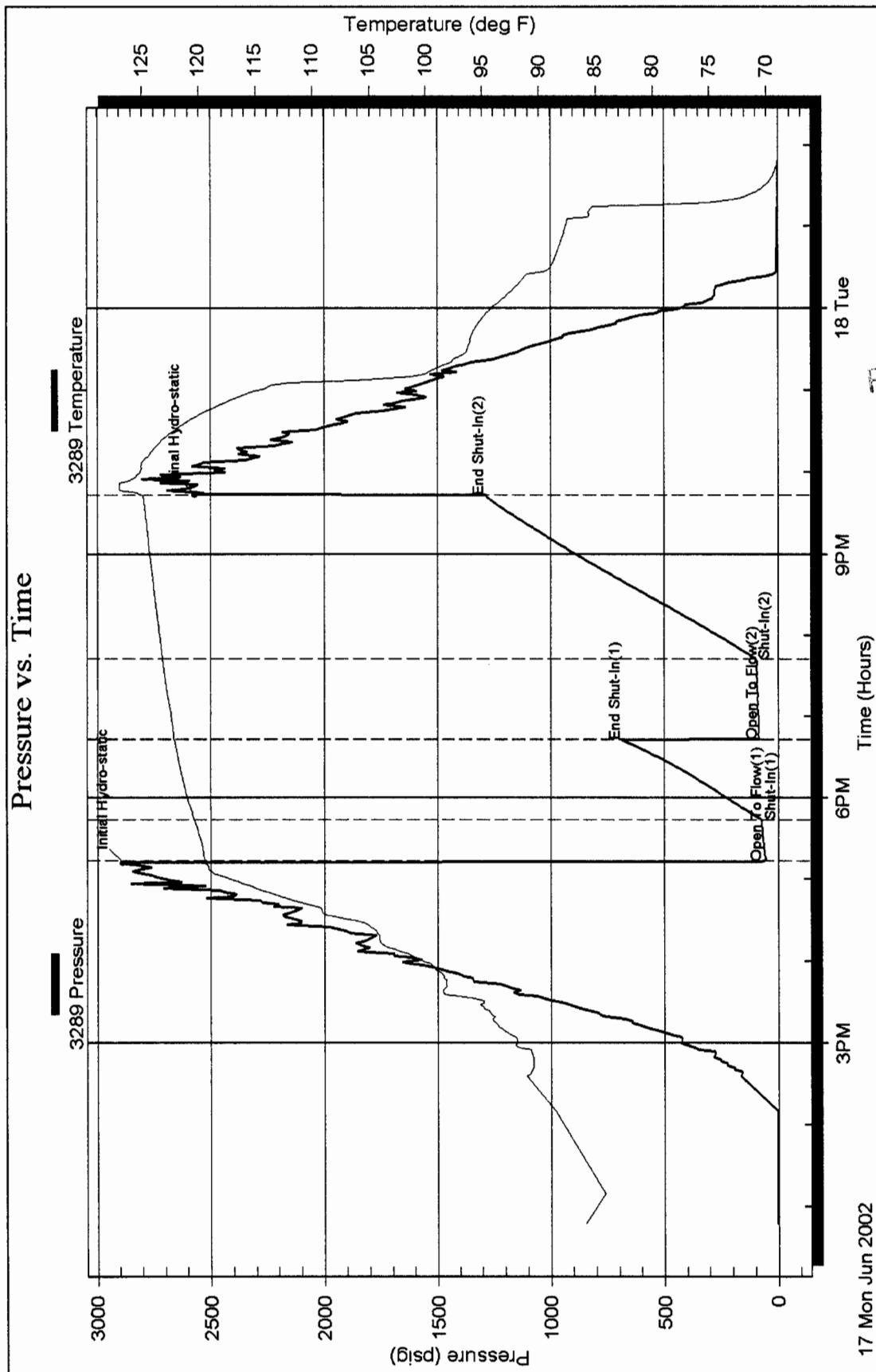
5 34s 30W

Harris Oil & Gas Company

Inside

Serial #: 3289

Pressure vs. Time

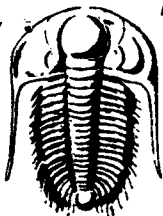


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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15395

Test Ticket

Well Name & No. Wilson 1-5 Test No. 1 Date 6/12/02
 Company NARRIS OIL & GAS Zone Tested MORROW
 Address 1125 17th St. Ste 2290 Denver CO 80202 Elevation 2710 KB 2700GL
 Co. Rep / Geo. Jeff Zoller Cont. Allen Dalglish Est. Ft. of Pay Por. %
 Location: Sec. 5 Twp. 34s Rge. 30w Co. Meade State Ks
 No. of Copies 5 Distribution Sheet (Y, N) ✓ Turnkey (Y, N) ✓ Evaluation (Y, N) ✓

Interval Tested 5780 5870 Initial Str Wt./Lbs. 105000 Unseated Str Wt./Lbs. 108000
 Anchor Length 90 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 115000
 Top Packer Depth 5775 Tool Weight 2100
 Bottom Packer Depth 5780 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 5870 Wt. Pipe Run 0 Drill Collar Run 559
 Mud Wt. 8.9 LCM 4 Vis. 62 WL 8.0 Drill Pipe Size 4 1/2 xtt Ft. Run 5139 5197
 Blow Description IF: Strong blow B.O.B. in 3 mins ISF: No blow
FF: Strong blow B.O.B. immediately FSI: No Blow.

Recovery — Total Feet 120 GIP 1720 Ft. in DC 120 Ft. in DP 0
 Rec. 120 Feet Of ACM 7 %gas %oil %water 93 %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 125 °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 2200 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	PSI	Recorder No.	T-On Location
(B) First Initial Flow Pressure		2589		3284	1115
(C) First Final Flow Pressure		63	PSI	(depth)	T-Started
(D) Initial Shut-In Pressure		72		5781	1247
(E) Second Initial Flow Pressure		685	PSI	Recorder No.	T-Open
(F) Second Final Flow Pressure		81		10242	1707
(G) Final Shut-in Pressure		95	PSI	(depth)	T-Pulled
(Q) Final Hydrostatic Mud		1284		5868	2137
		2568	PSI	Recorder No.	T-Out
					0150
			PSI	(depth)	T-Off Location
			PSI	Initial Opening	Test
				30	1900
			PSI	Initial Shut-in	Jars
				60	200
				60	Safety Joint
				120	150
					Straddle
					Circ. Sub
					Sampler
					Extra Packer
					Elec. Rec.
					150
					Mileage
					55
					Other
					4.5 hrs 150
					TOTAL PRICE \$
					1355
					1505

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE 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.

Approved By [Signature]

Our Representative [Signature]

CHART PAGE

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

