

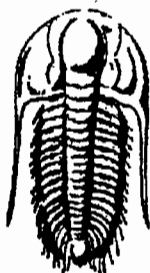
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NOV 21 2002

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Dominion Okla & TX Expl&Prod**

14000 Quail Spring Parkway Ste 600
Oklahoma City OK 73134

ATTN: Rick Hall

5-33-42 Morton Co KS

Blout 6#5

Start Date: 2002.08.30 @ 09:12:08

End Date: 2002.08.30 @ 20:21:08

Job Ticket #: 14501

DST #: 1

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

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DEC 10 2003
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Printed: 2002.09.04 @ 13:03:46 Page 1

Dominion Okla & TX Expl&Prod

Blout 6#5

5-33-42 Morton Co KS

DST # 1

Morrow

2002.08.30

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TESTING, INC.**

DRILL STEM TEST REPORT

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Dominion Okla & TX Expl&Prod

Blout 6#5

 14000 Quail Spring Parkway Ste 600
 Oklahoma City OK 73134

5-33-42 Morton Co KS

Job Ticket: 14501

DST#:1

ATTN: Rick Hall

Test Start: 2002.08.30 @ 09:12:08

GENERAL INFORMATION:

 Formation: **Morrow**

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

Time Tool Opened: 12:01:23

Time Test Ended: 20:21:08

 Interval: **4325.00 ft (KB) To 4591.00 ft (KB) (TVD)**

 Total Depth: **4591.00 ft (KB) (TVD)**

 Hole Diameter: **7.78 inches** Hole Condition: **Fair**
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 Test Type: **Conventional Bottom Hole**

 Tester: **Blake Wallace**

 Unit No: **20**

 Reference Elevations: **3542.00 ft (KB)**
3530.00 ft (CF)

 KB to GRVCF: **12.00 ft**

 Serial #: **3026**

Inside

 Press@RunDepth: **1042.40 psig @ 4576.00 ft (KB)**

 Start Date: **2002.08.30**

End Date:

2002.08.30

 Capacity: **7000.00 psig**

 Last Calib.: **1899.12.30**

 Start Time: **09:12:10**

End Time:

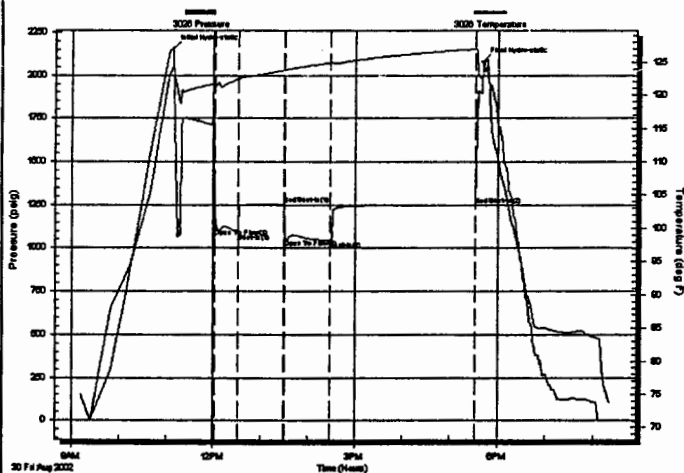
20:21:08

 Time On Btrr: **2002.08.30 @ 11:09:08**

 Time Off Btrr: **2002.08.30 @ 17:41:23**

TEST COMMENT: F-tagged bottom, opened tool, 8 min into hose started leaking, picked up tool, changed hose, retagged bottom & flow ed for 30 min (30 sec BOB, GTS 3 min)
 IS-blow back built to 1 3/4 inches
 FF-stro

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.95	124.22	Initial Hydro-static
53	1061.27	121.40	Open To Flow (1)
82	1088.24	122.45	Shut-In (1)
140	1255.91	123.78	End Shut-In (1)
142	1005.23	123.68	Open To Flow (2)
200	1042.40	124.91	Shut-In (2)
384	1251.03	127.00	End Shut-In (2)
393	2080.71	123.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	5% G 95% mud	1.52

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	250.00	4129.89
Last Gas Rate	0.75	300.00	4910.88
Max. Gas Rate	0.75	300.00	4910.88

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TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dominion Okla & TX Expl&Prod

Blout 6#5

14000 Quail Spring Parkway Ste 600
Oklahoma City OK 73134

5-33-42 Morton Co KS

Job Ticket: 14501

DST#: 1

ATTN: Rick Hall

Test Start: 2002.08.30 @ 09:12:08

Tool Information

Drill Pipe:	Length: 3777.00 ft	Diameter: 3.80 inches	Volume: 52.98 bbl	Tool Weight: 1800.00 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: 546.00 ft	Diameter: 2.25 inches	Volume: 2.69 bbl	Weight to Pull Loose: 120000.0 lb
			<u>Total Volume: 55.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4325.00 ft			Final 88000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	266.00 ft			
Tool Length:	296.00 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			4296.00	
S.I. Tool	5.00			4301.00	
Sampler	3.00			4304.00	
HMV	5.00			4309.00	
Jars	5.00			4314.00	
Safety Joint	2.00			4316.00	
Packer	5.00			4321.00	30.00 Bottom Of Top Packer
Packer	4.00			4325.00	
Stubb	1.00			4326.00	
Perforations	1.00			4327.00	
Change Over Sub	1.00			4328.00	
Blank Spacing	247.00			4575.00	
Change Over Sub	1.00			4576.00	
Recorder	0.00	3026	Inside	4576.00	
Perforations	13.00			4589.00	
Recorder	0.00	13637	Outside	4589.00	
Bullnose	2.00			4591.00	266.00 Bottom Packers & Anchor
Total Tool Length:		296.00			


**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dominion Okla & TX Expl&Prod

Blout 6#5

 14000 Quail Spring Parkway Ste 600
Oklahoma City OK 73134

5-33-42 Morton Co KS

Job Ticket: 14501

DST#: 1

ATTN: Rick Hall

Test Start: 2002.08.30 @ 09:12:08

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: 56.00 sec/qt

Cushion Volume:

bbl

 Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	5% G 95% mud	1.525

Total Length: 310.00 ft Total Volume: 1.525 bbl

Num Fluid Samples: 2

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: 4000ML Gas 4.0 cubic ft gas @ 250 PSI



TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

Dominion Okla & TX Expl&Prod

Blout 6#5

14000 Quail Spring Parkway Ste 600
Oklahoma City OK 73134

5-33-42 Morton Co KS

Job Ticket: 14501

DST#: 1

ATTN: Rick Hall

Test Start: 2002.08.30 @ 09:12:08

Gas Rates Information

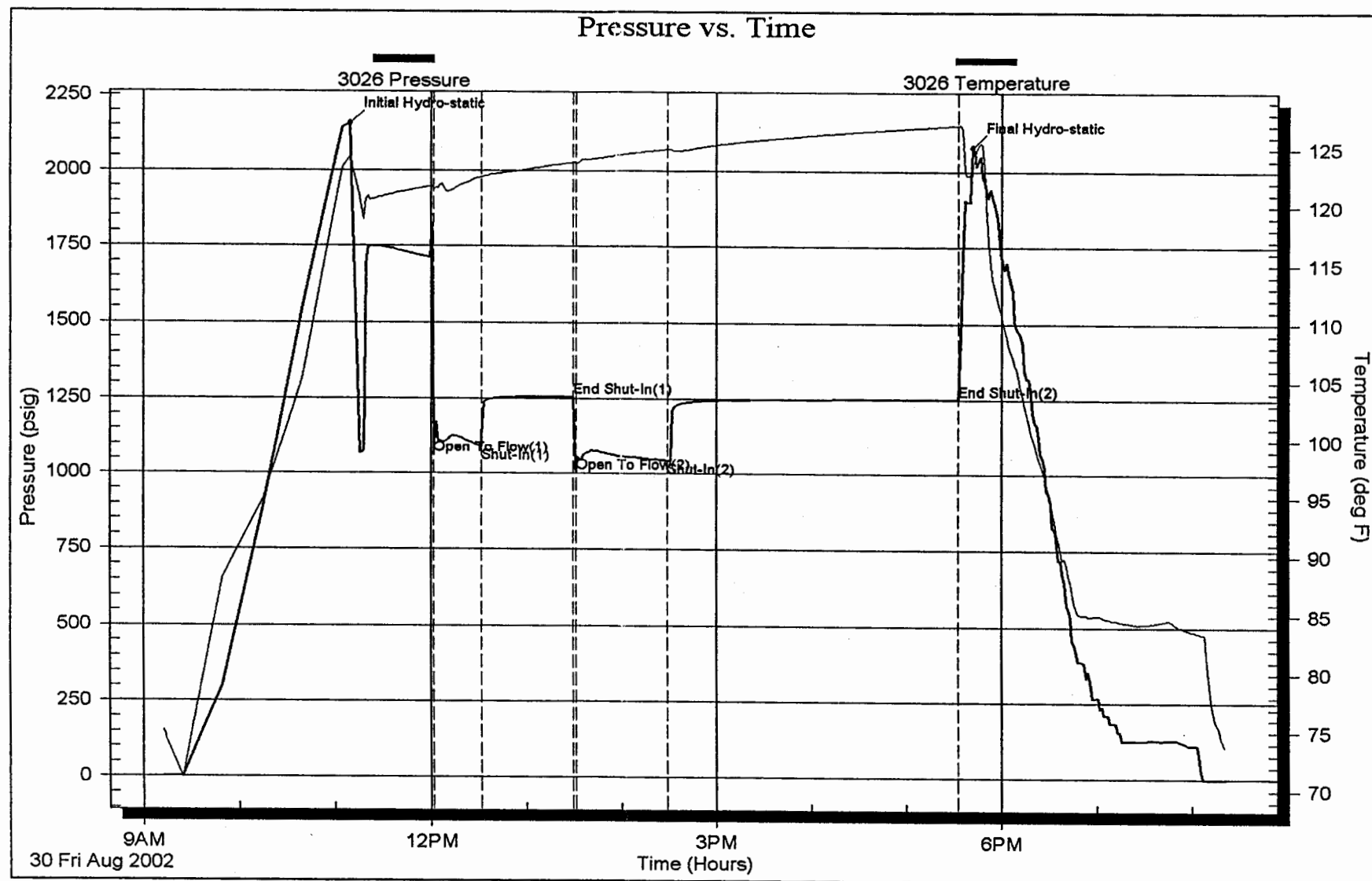
Temperature: 59 deg C

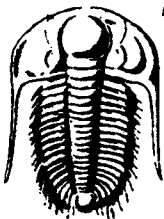
Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m³/d)
1	15	0.75	250.00	4129.89
1	15	0.75	250.00	4129.89
1	20	0.75	300.00	4910.88
1	25	0.75	300.00	4910.88
1	30	0.75	300.00	4910.88
2	5	0.75	250.00	4129.89
2	10	0.75	300.00	4910.88
2	15	0.75	300.00	4910.88
2	20	0.75	300.00	4910.88
2	25	0.75	300.00	4910.88
2	30	0.75	300.00	4910.88
2	35	0.75	300.00	4910.88
2	40	0.75	300.00	4910.88
2	45	0.75	300.00	4910.88
2	50	0.75	300.00	4910.88
2	55	0.75	300.00	4910.88





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

Invoice #5118

\$1744.00

No 14501

Test Ticket

Well Name & No.	Block 6#5		Test No.	1	Date	8-30-02
Company	Dominion OKLA. TEXAS Expl. & Prod. Inc		Zone Tested	Morrow		
Address	4000 Quail Springs Parkway Ste 100 OKC 73134		Elevation	3542'	KB	3530' GL
Co. Rep / Geo.	Rick Hall	Cont.	Cheyenne Rig #3	Est. Ft. of Pay	Por.	%
Location: Sec.	5	Twp.	33	Rge.	42	Co. Morton State KS
No. of Copies	Distribution Sheet (Y, N)	Turnkey (Y, N)	Evaluation (Y, N)			

Interval Tested	4325' - 4591'	Initial Str Wt./Lbs.	80000	Unseated Str Wt./Lbs.	88000
Anchor Length	266'	Wt. Set Lbs.	20000	Wt. Pulled Loose/Lbs.	120000
Top Packer Depth	4320'	Tool Weight	1800		
Bottom Packer Depth	4325'	Hole Size — 7 7/8"	✓	Rubber Size — 6 3/4"	✓
Total Depth	4591'	Wt. Pipe Run	N/A	Drill Collar Run	546'
Mud Wt.	8.2 LCM 8 Vis. 56 WL 7.2	Drill Pipe Size	4.51-0	Ft. Run	
Blow Description: 17 Tagged bottom, opened tool, 8 min into hose leaking, changed hose, re-tagged & flowed for 30 min. (30 sec BOB & TS 3 min.) 751-Down back 77-Strong blow BOB AS soon as open 751-No blow back					

Recovery — Total Feet	310	GIP		Ft. in DC		Ft. in DP	
Rec.	310'	Feet Of	SGC mud	5% gas	% oil	% water	100% 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	127	°F Gravity		°API D@		°F Corrected Gravity	°API
RW	@	°F Chlorides		ppm Recovery		Chlorides	1000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	2142	PSI Recorder No.	30800	T-On Location	04:15
(B) First Initial Flow Pressure			1061	PSI (depth)	4574'	T-Started	09:11
(C) First Final Flow Pressure			1088	PSI Recorder No.	13237	T-Open	18:30
(D) Initial Shut-In Pressure			1255	PSI (depth)	4589'	T-Pulled	17:30
(E) Second Initial Flow Pressure			1005	PSI Recorder No.		T-Out	20:30
(F) Second Final Flow Pressure			1042	PSI (depth)		T-Off Location	
(G) Final Shut-in Pressure			1251	PSI Initial Opening	30	Test	✓ Conventional
(Q) Final Hydrostatic Mud			2037	PSI Initial Shut-in	60	Jars	✓
				Final Flow	60	Safety Joint	✓
				Final Shut-in	180	Straddle	
						Circ. Sub	
						Sampler	✓
						Extra Packer	
						Elec. Rec.	✓
						Mileage	✓ 88 74.80
						Other	7 hrs. 52.60
						TOTAL PRICE	\$1744.80

TRILOBITE TESTING L.L.C. 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 Blake L. Valloci



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. K501 Date 8-30-02
Company Name Dominion
Lease Blount Co-S Test No. DST#1
County Morton Sec. 5 Twp. 33 Rng. 42

SAMPLER RECOVERY

Gas 4000 ML Chlorides 1000 ppm.
Oil _____ ML Resistivity _____ ohms @ _____ F
Mud _____ ML Viscosity 56
Water _____ ML Mud Weight 8.7
Other 4.0 cubic ft ML Filtrate 7.2
Pressure 250 PSI ML Other _____
Total _____ ML

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @60F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

CHART PAGE

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

