

DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb**

PO Box 524
Lawrencville IL 62439

ATTN: Tom Pronhold

32 10 20W Rooks KS

McKenna D #3

Start Date: 2007.09.03 @ 00:56:15

End Date: 2007.09.03 @ 07:52:15

Job Ticket #: 30581 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Herman L Loeb

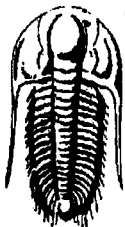
McKenna D #3

32 10 20W Rooks KS

DST # 1

Arbuckle

2007.09.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Herman L Loeb
PO Box 524
Lawrencville IL 62439
ATTN: Tom Pronhold

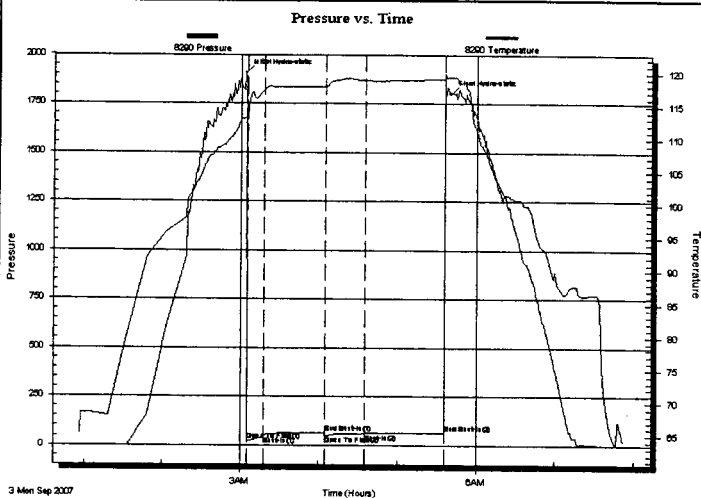
McKenna D #3
32 10 20W Rooks KS
Job Ticket: 30581 **DST#: 1**
Test Start: 2007.09.03 @ 00:56:15

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:05:15
Time Test Ended: 07:52:15
Interval: **3744.00 ft (KB) To 3761.00 ft (KB) (TVD)**
Total Depth: 3761.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Tyson Flax
Unit No: 21
Reference Elevations: 2175.00 ft (KB)
2170.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8290 Inside
Press@RunDepth: 59.78 psig @ 3745.00 ft (KB)
Start Date: 2007.09.03 End Date: 2007.09.03 Capacity: 7000.00 psig
Start Time: 00:56:17 End Time: 07:52:15 Last Calib.: 2007.09.03
Time On Btm: 2007.09.03 @ 03:04:15
Time Off Btm: 2007.09.03 @ 05:40:15

TEST COMMENT: IFP BOB in 45 sec
ISI Weak surface blow back died in 10 min
FFP BOB in 5 min
FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1904.47	113.19	Initial Hydro-static
1	21.84	112.93	Open To Flow (1)
14	41.01	117.48	Shut-In(1)
61	64.13	117.90	End Shut-In(1)
61	48.00	117.89	Open To Flow (2)
91	59.78	118.87	Shut-In(2)
152	63.64	119.11	End Shut-In(2)
156	1799.76	119.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCM 10%O 90%M	0.85
60.00	SOCMW 10%O 70%W 20%M	0.85

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L Loeb

McKenna D #3

PO Box 524
Lawrencville IL 62439

32 10 20W Rooks KS

Job Ticket: 30581

DST#: 1

ATTN: Tom Pronhold

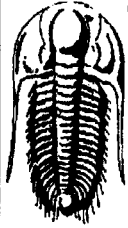
Test Start: 2007.09.03 @ 00:56:15

Tool Information

Drill Pipe:	Length: 3748.00 ft	Diameter: 3.82 inches	Volume: 53.13 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3744.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3724.00	
Shut In Tool	5.00			3729.00	
Hydraulic tool	5.00			3734.00	
Packer	5.00			3739.00	21.00 Bottom Of Top Packer
Packer	5.00			3744.00	
Stubb	1.00			3745.00	
Recorder	0.00	8290	Inside	3745.00	
Perforations	13.00			3758.00	
Recorder	0.00	3351	Inside	3758.00	
Bullnose	3.00			3761.00	17.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb
PO Box 524
Lawrencville IL 62439
ATTN: Tom Pronhold

McKenna D #3
32 10 20W Rooks KS
Job Ticket: 30581 DST#: 1
Test Start: 2007.09.03 @ 00:56:15

Mud and Cushion Information

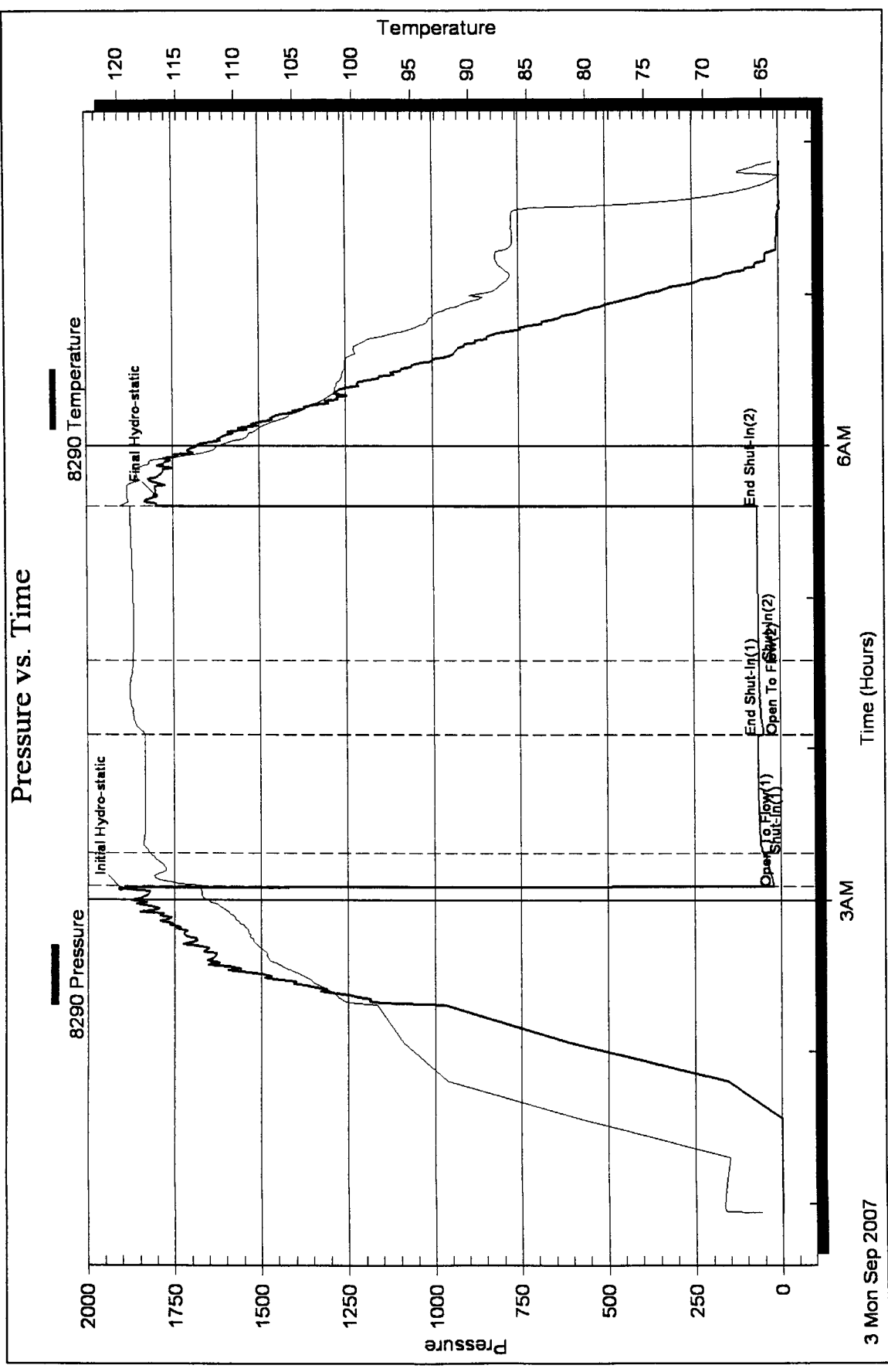
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2500.00 ppm			
Filter Cake: inches			

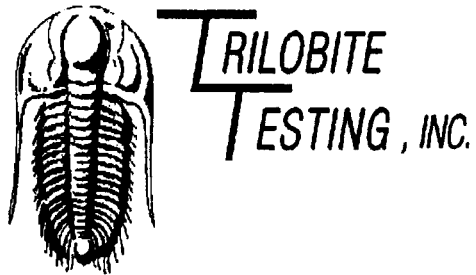
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OCM 10%O 90%M	0.851
60.00	SOCMW 10%O 70%W 20%M	0.851

Total Length: 120.00 ft Total Volume: 1.702 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **Herman L Loeb**

PO Box 524
Lawrencville IL 62439

ATTN: Tom Pronhold

32 10 20W Rooks KS

McKenna D #3

Start Date: 2007.09.03 @ 14:15:15

End Date: 2007.09.03 @ 21:37:23

Job Ticket #: 30582 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Herman L Loeb

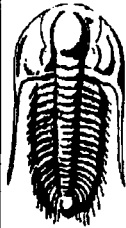
McKenna D #3

32 10 20W Rooks KS

DST # 2

Arbuckle

2007.09.03



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Herrman L Loeb
 PO Box 524
 Lawrencville IL 62439
 ATTN: Tom Pronhold

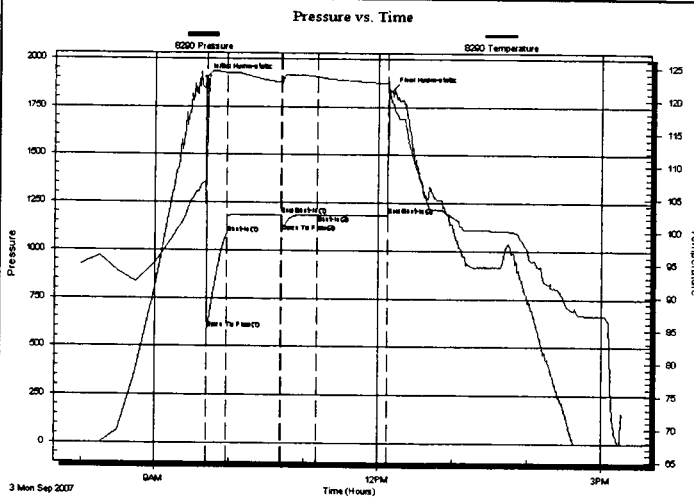
McKenna D #3
32 10 20W Rooks KS
 Job Ticket: 30582 **DST#: 2**
 Test Start: 2007.09.03 @ 14:15:15

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 16:04:38
 Time Test Ended: 21:37:23
 Interval: **3770.00 ft (KB) To 3786.00 ft (KB) (TVD)**
 Total Depth: **3786.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Tyson Flax**
 Unit No: **21**
 Reference Elevations: **2175.00 ft (KB)**
2170.00 ft (CF)
KB to GRV/CF: 5.00 ft

Serial #: 8290 **Inside**
 Press@RunDepth: **1184.31 psig @ 3771.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2007.09.03** End Date: **2007.09.03** Last Calib.: **2007.09.03**
 Start Time: **07:59:38** End Time: **15:17:23** Time On Btm: **2007.09.03 @ 09:40:38**
 Time Off Btm: **2007.09.03 @ 12:10:08**

TEST COMMENT: IFP BOB in 30 sec
 ISI No blow back
 FFP BOB in 30 sec died to 5"
 FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.91	107.72	Initial Hydro-static
2	586.08	107.49	Open To Flow (1)
17	1086.74	124.12	Shut-In(1)
61	1184.70	122.71	End Shut-In(1)
61	1096.31	122.64	Open To Flow (2)
91	1184.31	123.52	Shut-In(2)
148	1184.22	122.64	End Shut-In(2)
150	1833.19	120.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	WM	1.13
180.00	MW	2.55
240.00	MW	3.40
2040.00	Water	28.92

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Herman L Loeb

McKenna D #3

PO Box 524
Lawrenceville IL 62439

32 10 20W Rooks KS

Job Ticket: 30582

DST#: 2

ATTN: Tom Pronhold

Test Start: 2007.09.03 @ 14:15:15

Tool Information

Drill Pipe:	Length: 3780.00 ft	Diameter: 3.82 inches	Volume: 53.58 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 53.58 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3770.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3750.00	
Shut In Tool	5.00			3755.00	
Hydraulic tool	5.00			3760.00	
Packer	5.00			3765.00	21.00 Bottom Of Top Packer
Packer	5.00			3770.00	
Stubb	1.00			3771.00	
Recorder	0.00	8290	Inside	3771.00	
Perforations	12.00			3783.00	
Recorder	0.00	3351	Inside	3783.00	
Bullnose	3.00			3786.00	16.00 Bottom Packers & Anchor
Total Tool Length:	37.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Herman L Loeb
PO Box 524
Lawrencville IL 62439
ATTN: Tom Pronhold

McKenna D #3
32 10 20W Rooks KS
Job Ticket: 30582 **DST#: 2**
Test Start: 2007.09.03 @ 14:15:15

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 2400.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	WM	1.134
180.00	MV	2.552
240.00	MV	3.402
2040.00	Water	28.918

Total Length: 2540.00 ft Total Volume: 36.006 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time

